https://selldocx.com/products/test-bank-macroeconomics-10e-parkin

Exam

Name_ MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 1) All economic questions are about 1) _____ A) what to produce. B) how to cope with scarcity. C) how to satisfy all our wants. D) how to make money. 2) All economic questions arise because we 2) _ A) want more than we can get. B) want more than we need. C) have limited wants that need to be satisfied. D) have an abundance of resources. 3) Economics is best defined as the study of how people, businesses, governments, and societies A) use their infinite resources. B) attain wealth. C) choose abundance over scarcity. D) make choices to cope with scarcity. 4) Scarcity is a situation in which A) most people can get only bare necessities. B) people cannot satisfy all their wants. C) people can satisfy all their wants. D) some people can get all they want and some cannot. 5) Economists point out that scarcity confronts A) the rich but not the poor. B) the poor but not the rich. C) neither the poor nor the rich. D) both the poor and the rich. 6) Scarcity is 6) A) eliminated by choices. B) a situation that exists during economic recessions but not during economic booms. C) our inability to satisfy all our wants. D) an economic problem only for poor people. 7) When an economist talks of scarcity, the economist is referring to the A) ability of society to continually make technological breakthroughs and increase production. B) inability of society to satisfy all human wants because of limited resources. C) ability of society to consume all that it produces. D) ability of society to employ all of its resources. 8) Fundamental economic problems basically arise from A) the unequal distribution of income. B) the fact that society has more than it needs. C) turmoil in the stock market. D) our wants exceeding our scarce resources.

9) Scarcity exists because	se			9)	
A) of the inefficien	t choices we make.				
B) poor people nee	ed more food and other go	oods.			
C) society and peo	ple are greedy and waste	ful.			
D) our wants exceed	ed the resources available	to satisfy them.			
10) Scarcity can be elimin	nated through			10)	
	t helps us find new resour	ces.		,	_
B) wise use of our	-				
C) the use of mark	et mechanisms.				
D) None of the abo	ove because scarcity canno	ot be eliminated.			
11) As an economic conc	ept, scarcity applies to			11)	
A) money but not		B) time but not mone	ey.	,	_
C) both money and		D) neither time nor m	-		
•	stem, choices must be ma	de because resources are	and our wants	12)	
are	• •	D. 1 1 1 1			
A) unlimited; unli		B) unlimited; limited			
C) limited; limited		D) limited; unlimited			
13) The problem of "scare	city" applies			13)	
		se there are few productive re	sources in these	- /	
countries.	•	•			
B) to all economic	systems, regardless of the	eir level of development.			
C) only in econom are scarce.	ic systems that are just be	ginning to develop because s	pecialized resources		
	ally developed countries	because resources are scarce i	n these countries.		
14) Scarcity requires that	people must			14)	
A) compete.	B) trade.	C) cooperate.	D) make choices.	/ 	
15) People must make ch				15)	
A) there are many	_	B) of scarcity.			
C) most people en	oy shopping.	D) None of the above	answers is correct.		
16) An incentive				16)	
A) is the opposite of					
_	lty but could not be a rew	vard.			
	a reward or a penalty.				
D) could be a rewa	ard but could not be a pen	alty.			
17) An inducement to tal	ke a particular action is ca	lled		17)	
A) the marginal be	-	B) the marginal cost.			
C) an incentive.		D) opportunity cost.			

18) Economics is best defined as		18)
A) controlling a budget for a household.		
B) making choices from an unlimited su	pply of goods and services.	
C) how people make money and profits		
D) making choices with unlimited wants		
	,	
19) The study of economics		19)
A) deals mainly with microeconomics.		
B) focuses mainly on individual consum	ners	
C) recognizes that scarcity does not affect		
D) arises from the fact that our wants ex		
b) urises from the fact that our wants ex	ceed available resources.	
20) Economics is best defined as the science of	shaisa and have name a some with	20)
20) Economics is best defined as the science of		20)
A) differences in needs.	B) differences in wants.	
C) scarcity.	D) different economic systems.	
21) Economics is the study of		21)
A) the distribution of surplus goods to the		
B) the choices we make because of scarc	•	
C) ways to reduce wants to eliminate the	-	
D) affluence in a morally bankrupt work	d.	
22) The study of the choices made by individu		22)
A) positive economics.	B) macroeconomics.	
C) normative economics.	D) microeconomics.	
23) In part, microeconomics is concerned with		23)
A) factors that explain changes in the un		
B) the Federal Reserve's policy decisions		
C) changes in the economy's total outpu	t of goods and services over long periods of time.	
D) how a business firm decides upon the	e amount it produces and the price it sets.	
24) The study of the decisions of individual un	its in the economy is known as	24)
A) macroeconomics.	B) ceteris paribus study.	
C) microeconomics.	D) the study of incentives.	
25) Studying the determination of prices in inc	lividual markets is primarily a concern of	25)
A) negative economics.	B) positive economics.	
C) microeconomics.	D) macroeconomics.	
26) The analysis of the behavior of individual of	decision-making units is the definition of	26)
A) normative economics.	B) positive economics.	
C) microeconomics.	D) macroeconomics.	
27) Which of the following is a microeconomic	-	27)
A) How rent ceilings impact the supply	-	
B) Comparing inflation rates across cour		
_	United States and Mexico affects both nations'	
unemployment rates.		
D) How a tax rate increase will impact to	otal production.	

28) Which of the following questions is <u>NOT</u> a microeconomic question?	28)	
A) How would a tax on e-commerce affect eBay?		
B) Does the United States have a comparative advantage in informa	ation technology services?	
C) What is Britney's opportunity cost of having another baby?		
D) Can the Federal Reserve keep income growing by cutting interes	t rates?	
29) Which of the following is an example of a microeconomic decision?	29)	
A) an individual deciding how to allocate the time he or she has for	work and leisure	
B) a multinational company deciding where to relocate its world he	eadquarter	
 C) a small shoe factory deciding how much leather to purchase for t need 	the next quarter's production	
D) All of the above answers are correct.		
30) Which of the following is a microeconomic topic?	30)	
A) The reasons why total employment decreases.		
B) The reasons why Kathy buys less orange juice.		
C) The reasons for a decline in average prices.		
D) The effect of the government budget deficit on inflation.		
b) The effect of the government budget deficit on hundron.		
31) Which of the following questions is a topic that would be studied by n	nicroeconomics? 31)	
A) How will a lower price of digital cameras affect the quantity of ca		_
B) What is the current unemployment rate in the United States?		
C) Why did production and the number of jobs shrink in 2009?		
D) Will the current budget deficit affect the well-being of the next g	eneration?	
,		
32) An example of a question that might be explored in microeconomics is	s to determine 32)	
A) savings by the household sector.		
B) why the U.S. economy has grown more rapidly than the Japanese	e economy.	
C) the number of workers employed by Intel.		
D) the total employment within the U.S. economy.		
33) In part, microeconomics is concerned with the study of	33)	
A) national output of goods and services.		
B) the effect government regulation has on the price of a product.		
C) unemployment and economic growth.		
D) the Federal Reserve's policies.		
34) The branch of economics that deals with the analysis of the whole econ	nomy is called 34)	
A) metroanalysis. B) microeconon	· ——	
C) macroeconomics. D) marginal ana		
C) macroeconomics.	11y515.	
35) Macroeconomics is concerned with	35)	
A) government decision making concerning farm price supports.		
B) economy-wide variables.		
C) individual consumers.		
D) the effects on Ford Motor of a strike by the United Auto Workers	3.	
,		

36) Macroeconomics differs from microeconomics in that	:	36)
 A) macroeconomics studies the behavior of govern corporations. 	ment while microeconomics looks at private	
B) macroeconomics studies the decisions of individ	duals.	
C) macroeconomics focuses on the national econor	ny and the global economy.	
D) microeconomics looks at the economy as a who	le.	
37) Which of the following is a macroeconomic decision of	or concept?	37)
A) how many television sets to produce		
B) the unemployment rate for the entire economy		
C) the price of oil		
D) the unemployment rate for each firm		
38) Which of the following questions is a macroeconomic		38)
A) What is the future growth prospect for an econo		
B) How many workers should the owner of a busing		
C) What effect would a cure for Mad Cow Disease		
D) How many more pounds of cookies will a const	amer purchase if the price of cookies	
decreases?		
39) In broad terms the difference between microeconomic	cs and macroeconomics is that	39)
A) macroeconomics studies the effects of government	ent regulation and taxes on the price of	
individual goods and services whereas microec	onomics does not.	
B) microeconomics studies the effects of government	ent taxes on the national unemployment rate.	
C) they use different sets of tools and ideas.		
D) microeconomics studies decisions of individual	people and firms and macroeconomics	
studies the entire national economy.		
40) Which of the following is a macroeconomic issue?		40)
A) How federal government budget deficits affect	interest rates.	,
B) What determines the amount a firm will produc		
C) The cause of a decline in the price of peanut but	ter.	
D) How a rise in the price of sugar affects the mark	tet for sodas.	
41) Which of the following is a macroeconomic issue?		41)
A) The purchasing decisions that an individual cor	osumer makes	
B) The effect of an increase in the tax on cigarettes		
C) The hiring decisions that a business makes.	on eightette stiles.	
D) The effect of increasing the money supply on in	flation.	
42) Macroeconomic topics include		42)
A) studying what factors influence the price and qu	•	
B) studying the determination of wages and produ	action costs in the software industry.	
C) total, nationwide employment.		
D) the impact of government regulation of markets	5.	
43) The fact that wants cannot be fully satisfied with avai	lable resources reflects the definition of	43)
A) the big tradeoff.	B) for whom to produce.	· —
C) scarcity.	D) the what tradeoff.	

44) Studying the effects of	choices have on the individua	i markets within the eco	onomy is part of	44)
A) microeconomic	s.	B) macroeconomic	s.	
C) incentives.		D) scarcity.		
45) Economics can be det	fined as the social science that	t explains the		45)
A) choices made by				,
B) choices made by	y households			
C) choices that we	make as we cope with scarcit	ty		
D) choices we mak	te when we trade in markets			
46) Scarcity is a situation	in which			46)
	e poor and others are rich	B) something is bei	ing wasted	
C) long lines form	-		satisfy all our wants	
47) Migroggonomics is th	o study of			47)
47) Microeconomics is th A) the national eco				47)
B) all aspects of sc	-			
C) the global econo				
	individuals and businesses n	nake		
	roduces more houses and few	er typewriters, it is ans	wering the part	48)
of one of the two big	1	C) 1 .	5) "6 1 "	
A) "where"	B) "how"	C) "what"	D) "for whom"	
49) When firms in an eco	nomy start producing more c	computers and fewer te	levisions, they are	49)
	part of one of the two big		, ,	, <u> </u>
A) "where"	B) "what"	C) "when"	D) "for whom"	
50) If Taco Bell decides to	o produce more tacos and few	ver burritos. Taco Bell is	s answering the	50)
	big economic questions.	ver burntos, rues ben is		
A) "when"	B) "what"	C) "scarcity"	D) "why"	
51) When a farmer decid	es to raise hogs instead of cat	tle the farmer is answe	ring the part of	51)
one of the two big eco		tie, the farmer is answe	ring the part or	
A) "for whom"	B) "how"	C) "what"	D) "why"	
,	,	,	, ,	
52) When a country decid	des to produce fewer bomber	s and more public hous	ing projects, it is	52)
answering the	part of one of the two big	economic questions.		
A) "how"	B) "for whom"	C) "defense"	D) "what"	
53) When a firm decides	to produce more electric cars	and fewer gas guzzlers	s, it is most directly	53)
	part of one of the two big		,	
A) "how"	B) "for whom"	C) "what"	D) "scarcity"	
54) IIS producers decid	e to produce more compact ca	ars and fewer SLIVe as t	he price of gasoline rices	54)
	ring the part of one			J=)
A) "how"	B) "how many"		D) "when"	
, 11	~,,	~, ·······	~ ,	

55) Which of the following	g statements is correct?			55)
A) The percentage of people producing goods in the United States has steadily increased over the last 60 years.				
-	es produces more services	than goods.		
C) The United State	s produces an equal amo	unt of goods and services.		
D) The United State	es produces more goods th	nan services.		
56) In the U.S. economy, v				56)
	vided evenly between goo	ods and services.		
	e produced than goods.			
-	produced than services.			
D) The economy is a producing service	_	the proportion of production	on that is devoted to	
57) The largest part of wh	at the United States produ	uces today is such	as	57)
A) services; textboo	_	_	electronic equipment	
C) services; trade ar	nd health care	D) goods; education	and entertainment	
•	0	and a great deal of labor, it	is answering the	58)
_	of the two big economic qu			
A) "what"	B) "how"	C) "for whom"	D) "where"	
59) When a textile compar	ny keeps track of its inver	itory using a computer and	its competitor uses a	59)
	ncil, they are both answer	ring the part of on	e of the two big	
economic questions.				
A) "for whom"	B) "how"	C) "where"	D) "what"	
		tuce using machines instead		60)
		e of the two big economic o		
A) "for whom"	B) "how"	C) "scarcity"	D) "what"	
61) An art museum decide	es to offer tours by having	g visitors listen to cassette ta	pes rather than have	61)
		part of one of the two		
A) "what"	B) "scarcity"	C) "how"	D) "why"	
	0	consume more goods and s	services addresses the	62)
	of the two big economic qu			
A) "how"	B) "where"	C) "for whom"	D) "when"	
63) Which of the following	g is <u>NOT</u> a factor of produ	action?		63)
A) the effort of farm				
	skill of a small business of			
	o cool a nuclear power pla	ant.		
D) the wages paid to	o workers			

64) Which of the following a	re considered factors of pr	oduction used to produce	goods and services?	64)
I. Land				
II. Labor				
III. Capital				
IV. Entrepreneurship	D) I II 1 III 1	O) I 1 III 1	D) I II III 1 III	
A) I and II only	B) I, II and III only	C) I and III only	D) I, II, III and IV	
65) Which of the following is	s correct? Factors of produ	ction are		65)
A) only land and labor	-			,
B) the inputs used to p	produce goods and service	s.		
C) land, labor, the price	e system, and capital.			
D) the fundamental so	urce of abundance.			
66) Factors of production inc				66)
A) land, labor, capital				
B) only capital, land, a				
	ot land, which is fixed).			
D) the economic system	n.			
67) Easters of production inc	dude all of the following E	VCEDT		67)
67) Factors of production inc A) machines made in p		B) a wheat field that is	not irrigated	67)
C) entrepreneurship	past years.	D) money	not irrigated	
c) entrepreneuromp		D) money		
68) Factors of production are	grouped into four catego	ries:		68)
A) labor, capital, mone		B) land, labor, capital,	entrepreneurship	,
C) land, labor, capital,		D) land, capital, money		
•	Ž	, .		
69) Which of the following is	NOT a factor of production	on?		69)
A) vans used by a bak	ery company for deliveries	5		
•	at have yet to be develope			
	g a production schedule fo	or a new product		
D) 175 shares of Micro	soft stock			
70) Kooning in mind account	victe' definition of featers -	foreduction which of the	following is NOT a	70)
70) Keeping in mind econom factor of production?	iists deminion of factors o	i production, which of the	following is <u>NOT</u> a	70)
A) coal		B) an engineer		
C) low-skilled labor		D) money		
-,		,		
71) Which of the following is	NOT a factor of producti	on?		71)
A) 100 shares of Micro		B) mineral resources		,
C) an apartment build		D) a university profess	or	
	-			
72) The income earned by th	e people who sell the serv	ices of the factor of produc	tion is	72)
called	- •	1		
A) capital; rent		B) land; profit		
C) entrepreneurship; v	vages	D) entrepreneurship; p	rofit	
73) Which factor of producti	on earns profit?	_,		73)
A) human capital		B) entrepreneurship		
C) money		D) land		

74) Which factor of production earns most in	ncome in the United States?	74)
A) money	B) entrepreneurship	
C) capital	D) labor	
75) Which of the following best defines capit	tal as a factor of production?	75)
and services.	ple obtain from education and use in production of goods	
B) The gifts of nature that businesses		
C) Instruments, machines, and buildir	-	
D) Financial assets used by businesses	·.	
76) In economics, the term "land" means		76)
A) land, mineral resources, and nature		
B) only land that is used in agricultura	•	
C) land that is devoted to economic pu		
D) land used for agricultural and urba	in purposes.	
77) A natural resource, such as fishing territor		77)
A) only capital.	B) both land and labor.	
C) land only.	D) land, labor, capital and entrepreneurship.	
78) The "gifts of nature" are included as part	of which factor of production?	78)
A) capital	B) land	
C) entrepreneurship	D) labor	
79) Copper falls into which factor of product	tion category?	79)
A) capital	B) entrepreneurship	
C) labor	D) land	
80) Overtime worked by a JCPenney associa	te is considered and earns	80)
A) human capital; interest.	B) labor; profit.	
C) labor; wages.	D) entrepreneurship; profit.	
81) The term human capital refers to		81)
A) entrepreneurship and risk-taking.		
B) people's knowledge and skill.		
C) labor resources used to make capital	al equipment.	
D) buildings and machinery.		
82) Human capital is		82)
A) all capital owned by individuals, by	ut not by corporations or governments.	
	deral safety standards for use by humans.	
	corporations, but not by governments.	
D) the skill and knowledge of workers	3.	
•	ls she is obtaining from her training and education will	83)
increase Joy's		
A) human capital	B) entrepreneurship	
C) physical capital	D) None of the above answers are correct.	

84) Which of the following is <u>NOT</u> an investment in human capital?				84)
A) a computer science student learns how to repair a laptop computer				
	nt takes a seminar in using			
	ce student takes a course o		n computer	
	ses a laptop computer	n programming a rapto	p compater	
D) a stadent parena	ises a raptop computer			
				a=\
85) Samantha goes to colle		•		85)
A) investment in hu	-	B) increase in labo		
C) increase in entre	preneurship.	D) investment in p	physical capital.	
86) In economics, the term	"capital" refers to			86)
A) the money in one	e's pocket.	B) buildings and ϵ	equipment.	
C) consumer goods.	-	D) mineral resour		
2, 2020		_ /		
97) Human resources that	norform the functions of s	manizina managina a	ad assambling the other	97)
87) Human resources that	perform the functions of c	ngamzing, managing, ai	id assembling the other	87)
resources are called		D) 1 (. 1	
A) venture capital.		B) productive cap		
C) physical capital.		D) entrepreneursh	up.	
88) The economic resource	e that organizes the use of	other economic resource	es is called	88)
A) labor.		B) land.		
C) entrepreneurship	0.	D) capital.		
89) Entrepreneurs do all o	f the following EXCEPT			89)
A) organize labor, la	_			
_	resources used in the pro	duction process		
C) bear risk from bu	_	auction process.		
	w ideas about what and h	our to produce		
b) come up with he	w lucas about what and in	ow to produce.		
00) E : 11 : 11	1 11 6.1 6.11			00)
90) Entrepreneurs directly				90)
-	se from making business of			
	about what and how to pr	oduce.		
C) make business de	ecisions.			
D) decide for whom	goods and services are pr	oduced.		
91) Differences in income	are most directly related to	which of the following	economic question?	91)
	es are various goods and se	_	1	,
	services are produced?	1		
	and services produced?			
	he goods and services that	are produced?		
b) who consumes t	ne goods and services that	are produced:		
00) FF 6	1 (6 1, 1; ; 1		1 1	00)
92) The fact that some peo	-			92)
	an economy facing the	part of one of the	e two big economic	
questions.				
A) "how"	B) "when"	C) "why"	D) "for whom"	
93) The fact that a rock sta	r earns \$5 million a year w	hile a teacher earns \$25,	000 annually is most	93)
-	an economy answering th		2	
questions.	, 3	— .	<u>U</u>	
A) "how"	B) "for whom"	C) "when"	D) "why"	

94) One economist says that raising taxes on ga	s would be in the social interest. What does this	94)
economist mean?		
A) Higher taxes on gas would benefit eve	eryone.	
B) Raising taxes on gas would benefit me	ost of the people.	
C) Higher taxes on gas would benefit so	ciety as a whole.	
D) Both answers A and C are correct.	•	
,		
95) Which of the following is <u>NOT</u> part of the f	irst big economic question?	95)
A) For whom are goods and services pro		
B) What goods and services are produce		
C) How are goods and services produced		
D) Why do incentives affect only margin		
2) will the interior es affect only interior		
96) In economics we learn that		96)
A) tradeoffs allow us to avoid the proble	m of appartunity cost)0) <u> </u>
	le alternatives given up when we make a choice.	
C) tradeoffs allow us to	ie aliematives given up when we make a choice.	
D) None of the above answers is correct.		
D) Notice of the above answers is correct.		
OT) P		07)
97) Because we face scarcity, every choice invol		97)
A) money	B) an opportunity cost	
C) giving up something for nothing.	D) the question "what."	
98) The term used to emphasize that making ch		98)
A) accounting cost.	B) utility cost.	
C) opportunity cost.	D) substitution cost.	
99) The loss of the highest-valued alternative of		99)
A) opportunity cost.	B) marginal benefit.	
C) entrepreneurship.	D) scarcity.	
100) Opportunity cost means the		100)
A) accounting cost minus the marginal b	enefit.	
B) accounting cost minus the marginal co	ost.	
C) highest-valued alternative forgone.		
D) monetary costs of an activity.		
101) The opportunity cost of any action is		101)
A) the benefit from the action minus the	cost of the action.	,
B) the dollars the action cost.		
C) all the possible alternatives given up.		
D) the highest-valued alternative given	up.	
, 0		
102) The opportunity cost of something you dec	ide to get is	102)
A) all the possible alternatives that you g	-	
B) the value of the item minus the cost ye		
C) the amount of money you pay to get i	-	
D) the highest valued alternative you giv		
i, iii iii jou giv	- · r · · · d - · · · ·	

103) Opportunity cost is best defined as			103)
A) all the alternatives that are given up to get something.			
B) the highest-valued alternative that is given to	_		
C) how much money is paid for something, tak			
D) how much money is paid for something.	ang milation into ac	court.	
D) now much money is paid for something.			
104) Which of the following statements are correct?			104)
I. The "highest-valued alternative given up to g	_	opportunity cost.	
II. Wealthy economies don't experience opportu	nity costs.		
III. Scarcity creates opportunity costs.			
A) I and II B) I and III	C) I only	D) I, II, and III	
105) Opportunity cost is defined as the			105)
A) highest-valued alternative given up.			
B) lowest–valued alternative given up.			
C) cost of not doing all of the things you would	11:1:040 do		
	i like to do.		
D) total value of all the alternatives given up.			
106) You have the choice of going on vacation to Florid	-	_	106)
spending the week doing fix-up projects around y	your house. If you d	ecide to go to Florida, the	
opportunity cost of the trip is			
A) working, because you would be giving up d	lollars.		
B) working and doing fix-up projects.			
C) working or doing fix-up projects, depending	g on which you wou	ld have done otherwise.	
D) nothing because you will enjoy the trip to Flo			
, , , , , , , , , , , , , , , , , , , ,			
107) The night before a midterm exam, you decide to g	o to the movies inst	ead of studying for the exam.	107)
You score 60 percent on your exam. If you had stu			
percent. What was the opportunity cost of your ex	-	-	
	-	5 :	
A) 10 percent off your grade.	B) Zero.		
C) 70 percent	D) 60 percent.		
108) On Saturday morning, you rank your choices for a			108)
work out at the gym, have breakfast with friends,	and sleep late. Supp	oose you decide to go to the	
library. Your opportunity cost is			
A) zero because you do not have to pay money	to use the library.		
B) working out at the gym.			
C) not clear because not enough information is	given.		
D) working out at the gym, having breakfast wi	0	ping late.	
109) Fred and Ann are both given free tickets to see a n	novie Both decide t	o see the same movie. We	109)
know that	novic. Dom acciae t	o see the same movie. We	10)
A) the opportunity cost of seeing the movie is z	zoro bocauso the tick	ate wara froa	
B) both bear the same opportunity cost of seein	ig the movie because	they are doing the same	
thing. (1) both bear an appartunity cost of socing the r	movio bossuss there	could have done other things	
 C) both bear an opportunity cost of seeing the r instead of seeing the movie. 	movie because mey	could have done other things	
e e e e e e e e e e e e e e e e e e e	react of cooing the	novia bacquea the tickets were	
D) it is not possible to calculate the opportunity	cost of seeming the n	iovie because the tickets were	
free.			

week skiing. If you d A) working, becau B) the value of wo Hawaii. C) the value of wo	of going to Hawaii for a week ecide to go to Hawaii, the op se you would be giving up a rking or skiing, depending or thing and skiing. The power if you enjoy the time sper	portunity cost is week's pay. n which you would h	- 0	110)
111) Today, Julie attended	I her 12:30 Economics class. I ends. She had other options; s oing to class is the	f she hadn't gone to c	ed or slept in. Julie's	111)
	re, and sleep she gave up.	D) sleep she gav	-	
attending his mornin	in the mornings and play ter g class for one hour is		. The opportunity cost of Joe	112)
B) an hour of sleep C) an hour of tenn		up.		
	of free time this evening. He r		~	113)
the opportunity cost	vie	ohn?		
	vacation and the trip costs you could have earned \$750. In			114)
A) \$2,750.	B) \$1,250	C) \$750.	D) \$2,000.	
A) the tuition but r B) tuition, books, a C) the highest valu	of attending college included not the job at which you wou and the lost wages for the hou and alternative to attending c and alternative to attending c	ld otherwise have wo urs spent studying. ollege plus the cost o		115)
costs ten dollars. If she decision is A) twenty dollars. B) Brand B plus Brand A.	of purchasing one of three properties that Brand A meet and C.	s her needs best, ther	n the opportunity cost of this	116)

forgone.

117) Which of the following is <u>NOT</u> an exa	mple of an opportunity cost?	117)
A) Because Mary is now being paid	l a higher wage, she can afford to buy a new car even thoug	չh
she is moving into a bigger apar		,
	an was not able to continue working as an electrician; as a	
	35,000 in earnings while she was in college.	
	cation time to paint his house, he was unable to visit the	
,	cation time to paint his house, he was unable to visit the	
Caribbean last year.		
	dying for an economics exam, a student was unable to	
complete a homework assignme	nt for calculus class.	
440) F		440)
	nd a basketball game, a hockey match or the symphony.	118)
11	ne hockey match and thinks to herself that if she did not go	to
the match she would go to the symph	ony. Then the opportunity cost of attending the hockey	
match is		
A) going to the symphony.		
B) going to the symphony and the	basketball game.	
C) three hours of time.	· ·	
D) going to the basketball game.		
, 0 0		
119) After you graduate, you have decided	to accept a position working at the Bureau of Labor	119)
	o other offers you received were working for Wal-Mart for	r
•	oung consulting for \$42,000. Of these two offers, you would	
· · · · · · · · · · · · · · · · · · ·	oung. What is the opportunity cost of accepting the position	
at the Bureau of Labor Statistics?	rung. What is the opportunity cost of accepting the position	L
	n paid working for Ernst and Young and the \$38,000 you	
would have been paid working		
	n paid working for Ernst and Young	
	king at the Bureau of Labor Statistics	
D) the \$38,000 you would have bee	n paid working for Wal-Mart	
100) P.II. P		100)
	ge with a choice of playing professional football at \$2 millio	• • • • • • • • • • • • • • • • • • • •
,	He decides to play football, but eight years later, though he	
could continue to play football at \$2 n	nillion a year, he quits football to make movies for \$3 millio	n
a year. His opportunity cost of playin	g football at graduation was and eight years later	
the opportunity cost of making movie	s was	
A) \$2 million; \$3 million	B) \$2 million; \$2 million	
C) \$50,000; \$50,000	D) \$50,000; \$2 million	
, . , . , . ,	, , , , ,	
121) During the summer you have made the	ne decision to attend summer school, which prevents you	121)
•	ob in which you normally earn \$6,000 for the summer. You	· —
	applies cost \$1,300. In terms of dollars, the opportunity cost	
of attending summer school is	ipplies cost \$1,500. In terms of donars, the opportunity cost	,
_	C) #4 200 D) #6 000	
A) \$10,300. B) \$3,300	. C) \$4,300. D) \$6,000.	
122) The term "ennewhereity cost" points	et that	122\
122) The term "opportunity cost" points ou		122)
A) there may be such a thing as a fu		
	e most of life's opportunities because some will fail to achieve	ve
their goals.		
•	of a resource involves a costly choice.	
D) executives do not always recogn	ize opportunities for profit as quickly as they should.	

123) When the government chooses to use resources to build a dam, these sources are no longer		123) _	
available to build a highway. This choice illustrates the	-		
A) a fallacy of composition.	B) a market mechanism.		
C) opportunity cost.	D) macroeconomics.		
124) Jill, an economics student, has already spent 5 hours	cleaning her room. In deciding whether or not	124)	
to continue cleaning for another hour, she applies the	economic principle of		
A) scarcity.	B) ceteris paribus.		
C) productivity.	D) choosing at the margin.		
125) Marginal benefit is the benefit		125)	
A) that arises from the secondary effects of an activ	vitv.	/ _	
B) that your activity provides to someone else.	,		
C) of an activity that exceeds its cost.			
D) that arises from an increase in an activity.			
126) A benefit from an increase in activity is called the	70	126) _	
A) marginal benefit.	B) total benefit.		
C) economic benefit.	D) opportunity benefit.		
197) The marginal hanglit is the		127)	
127) The marginal benefit is the		127) _	
A) loss of the highest-valued alternative.			
B) additional gain from one more unit of an activit	•		
C) additional gain from one more unit of an activit unit of the activity.	y minus the additional cost from one more		
D) additional cost from one more unit of an activity	y.		
128) In terms of dollars, the marginal benefit of working fi	ive davs a week instead of four davs a week is	128)	
A) the wages received for 4 days of work.		′ –	
B) the wages received for the fifth day of work.			
C) the wages received for 5 days of work.			
D) None of the above answers is correct.			
,			
129) Your employer has asked you to start working overti	me and has offered to pay \$18 per hour for	129)	
every hour you work beyond forty hours a week. The	e wage rate for each of the first forty hours		
will continue to be the usual \$15 per hour. In terms of	f dollars, what is the marginal benefit of		
working each hour of overtime?			
A) \$3.00 B) \$18.00	C) \$15.00 D) zero		
130) A student is studying for an exam 2 hours a day and	is dehating whether to study an extra hour	130)	
The student's marginal benefit	a accounty michief to study different field.		
A) is greater than the student's marginal cost.			
B) is the benefit the student receives from studying	z all 3 hours		
C) is the benefit the student receives from studying			
D) depends on the grade the student earns on the ϵ			
b) depends on the grade the student earns on the	Aum.		

131) A student athlete is deciding whether to work out for an extra hour. Her marginal benefit from	131)
another hour of exercise	
A) depends on the cost of the workout.	
B) is the benefit she gets from all the hours she's worked out all week.	
C) is less than the marginal cost of the additional hour.	
D) is the benefit she receives from exercising the additional hour.	
132) Suppose that you are spending two hours a day studying economics, and your grade is 85 percent.	132)
You want a higher grade and decide to study for an extra hour a day. As a result, your grade rises to 90 percent. Your marginal benefit is the	
A) 5 point increase in your grade minus the opportunity cost to you of spending the hour studying.	
B) extra hour per day you spend on studying.	
C) three hours per day you spend on studying.	
D) 5 point increase in your grade.	
133) Marginal cost is the cost	133)
A) that your activity imposes on someone else.	,
B) that arises from the secondary effects of an activity.	
C) that arises from an increase in an activity.	
D) of an activity that exceeds its benefit.	
134) A cost due to an increase in activity is called	134)
A) the total cost. B) a marginal cost.	
C) a negative marginal benefit. D) an incentive loss.	
135) Marginal cost is the	135)
A) cost of an activity minus the benefits of the activity.	
B) cost of all forgone alternatives.	
C) cost of an increase in an activity.	
D) total cost of an activity.	
136) Laura is a manager for HP. When Laura must decide whether to produce a few additional printers,	136)
she is choosing at the margin when she compares	
A) HP's printers to printers from competing companies, such as Lexmark.	
B) the extra revenue from selling a few additional printers to the average cost of producing the additional printers.	
C) the extra revenue from selling a few additional printers to the extra costs of producing the printers.	
D) the total revenue from sales of printers to the total cost of producing all the printers.	
137) A lawn service is deciding whether to add an additional employee to its summer crew. The	137)
marginal cost of hiring this worker depends on the	
 A) the additional revenue created by having an additional worker minus the cost of hiring the worker. 	
B) total amount paid to all <i>previously</i> hired workers.	
C) the total amount paid to <i>all</i> the workers, both the new one and the previously hired workers. D) total amount paid to <i>only</i> the new worker.	

138) If the marginal cost of an activity exceeds the margin	nal benefit, then	138)
A) the activity will occur because the high margina	l cost means it must be highly valued.	
B) the person must concentrate on the activity's to	otal benefits.	
C) the forgone alternatives' costs must be increase	d.	
D) an alternative action will be selected.		
139) A store remains open from 8 a.m. to 4 p.m. each wee	kday. The store owner is deciding whether to	139)
stay open an extra hour each evening. The owner's n	•	/
A) must be greater than or equal to the owner's m	e e e e e e e e e e e e e e e e e e e	
B) is the benefit the owner receives from staying of		
C) is the benefit the owner receives from staying of	-	
D) depends on the revenues the owner makes dur	•	
, [8) .	
140) Which of the following creates an incentive to increa	se the amount of an activity?	140)
A) a decrease in the marginal cost of the activity a		
activity	na an increase in the marginal series of the	
B) an increase in the marginal cost of the activity a	and a decrease in the marginal benefit of the	
activity	and a decrease in the marginal benefit of the	
C) constant marginal cost and constant marginal b	penefit of the activity	
D) None of the above create an incentive to increa		
,	,	
141) Suppose that the government of New York state pro	mises to decrease taxes to a firm if it decides to	141)
stay in New York instead of moving to another state		
, to make the of the firm remainin		
A) an incentive; marginal cost exceed the margina		
B) an incentive; marginal benefit exceed the marg		
C) a command; marginal cost exceed the marginal		
D) a command; marginal benefit exceed the margi		
, , , ,		
142) Jed had an exam score of 50 percentage points. There	e is an extra credit assignment that led can	142)
complete that will raise his exam score by 20 percentage points. Jed has determined that the extra		/
credit assignment will take 10 hours of his time. Jed	0 1	
A) wants a higher score.	1 0	
B) 20 percentage points more than the 10 hours of	his time.	
C) 70 percentage points more than the 10 hours of		
D) 10 hours of his time more than the 20 percentage		
,	<i>J</i> 1	
143) From 8 P.M. to 10 P.M., Susan can attend a movie, stu	idy, or talk with friends. Suppose that Susan	143)
decides to go to the movie but thinks that, if she had	•	- /
friends. The opportunity cost of attending the movie		
A) two hours of time.	B) studying.	
C) talking with friends.	D) talking with friends <i>and</i> studying.	
,	, 0	
144) When the government hires people to serve in the ar	my, these people are no longer available to do	144)
other work. This choice illustrates the concept of	,se people are no longer available to do	/
A) opportunity cost. B) an incentive.		
C) a social interest/private interest conflict.	D) marginal benefit.	
•		

145) When the government of	chooses to spend the tax d	ollars that it collects on	homeland security, its	145)	
choice	-		•	_	
A) involves a tradeof	f of other goods and servi	ces such as education fo	or more homeland security		
B) primarily affects v	who gets the goods and ser	rvices produced.			
C) illustrates that sca	rcity does not always exis	t			
D) involves no tradeo	off because the defense is r	necessary			
146) Making a choice at the 1	nargin means			146)	
A) waiting until the l	ast minute to make a choice	ce			
B) deciding to do a li	ttle bit more or a little bit l	less of an activity			
C) letting someone el	se choose for you				
D) making a choice b	y comparing the total ben	efit and the total cost			
147) Suppose that for the pas	st two months, you have s	tudied economics one l	nour a day. You now	147) _	
•	ics two hours a day. For tl	-			
A) your marginal cos benefit	t of studying economics fo	or an hour must have ex	ceeded its marginal		
B) the opportunity co	ost of studying economics	must have risen.			
C) your marginal ber marginal cost	nefit from studying econor	mics an hour must have	been greater than its		
<u> </u>	of studying economics mu	ıst have fallen			
148) In economics, positive s	tatements are about			148) _	
A) macroeconomics,	not microeconomics.	B) the way things	are.		
C) microeconomics, r	not macroeconomics.	D) the way things	ought to be.		
149) A positive statement is				149) _	
A) about what is.					
B) about what ought					
•	ontext of a model with sin	-			
D) the result of a mod	del's normative assumptio	ns.			
150) A positive statement is				150) _	
A) always true.		·	ot use marginal concepts.		
C) about what ought	to be.	D) about what is.			
151) Which of the following	0 0 1	ve" statements?		151) _	
I. They describe what	0				
•	is believed about how the	e world appears.			
III. They can be tested a		C) I 1 II	D) II 1 III		
A) I and III.	B) I, II and III.	C) I and II.	D) II and III.		
152) Positive and normative				152) _	
	s can be tested, whereas n				
	ents depict "what is" and p	_	_		
	ents can be tested, whereas		nnot.		
D) normative stateme	ents never use the word "s	should."			

153) Positive economic statements		153)
A) prescribe what should be.	B) cannot be tested against the facts.	
C) are related only to microeconomics.	D) can be tested against the facts.	
154) Which of the following is a positive statement?		154)
A) An unemployment rate of 9 percent is a nation	al disgrace.	
B) When the national unemployment rate is 9 per	cent, the unemployment rate for inner-city	
youth is often close to 40 percent.		
C) Unemployment and inflation are equally impo	rtant problems.	
D) Unemployment is a more important problem t	han inflation.	
155) Which of the following is a positive statement?		155)
A) Because they decrease productivity, labor unio	ns should be eliminated.	
B) A 5 percent increase in income leads to a 3 per- juice.	cent increase in the consumption of orange	
C) The United States should fight inflation even if	it raises unemployment.	
D) What to do with Social Security is the most imp	- ·	
156) Which of the following is a positive statement?		156)
A) The distribution of income is fair.		, <u></u>
B) People buy more of a good or service when its	price falls.	
C) Corporations should be more socially responsi	ble.	
D) The government ought to provide health care to	o everyone.	
157) Which of the following is an example of a positive st	atement?	157)
A) The foreign sector should be more tightly cont		·
B) Government should not redistribute income.		
C) Households are the primary source of saving.		
D) Business firms ought to contribute more to cha	rities.	
158) Which of the following is an example of a positive st	atement?	158)
A) We should cut back on our use of carbon-base	d fuels such as coal and oil.	
B) Every American should have equal access to he	ealth care.	
C) The Federal Reserve ought to cut the interest ra	ate.	
D) Increasing the minimum wage results in more	unemployment.	
159) Which of the following is a positive statement?		159)
A) Taxes should be lower because then people get	to keep more of what they earn.	
B) My economics class should last for two terms by	pecause it is my favorite class.	
C) Given their negative impact on productivity, the	0	
D) A 10 percent increase in income leads to a 4 pe	rcent increase in the consumption of beef.	
160) Which of the following is a positive statement?		160)
A) A minimum wage of \$7.50 per hour is a shame	•	
B) Our planet is warming because of an increased	carbon dioxide buildup in the atmosphere.	
C) Both these statements are positive.		
D) Neither of these statements is positive.		

161) Which of the following is a positive statement?		161)	
A) My economics class should last for two terms because it is my favorite class.			
B) An increase in tuition means fewer str	udents will apply to college.		
 C) The best level of taxation is zero perce earn. 	ent because then people get to keep everything they		
	of a pizza so that more students can afford to buy it.		
162) Which of the following is a positive stateme		162)	
A) Low rents are good because they mak	-		
B) Low rents decrease the amount of hou	-		
	to be free to charge whatever rent they want.		
D) Housing costs too much.			
163) When Al makes the statement, "The cost of he is	living has increased 10 percent over the past 10 years,"	163)	
A) making a normative statement.	B) facing the standard of living tradeoff.		
C) making a positive statement.	D) testing an economic model.		
, 8 I	, 8		
164) Which of the following is a positive stateme	ent?	164)	
A) Increased prison sentences are the bes	st way to reduce the crime rate.		
B) State lotteries are good methods to us	e for raising revenues.		
C) An increase in gas prices leads people	to car pool more.		
D) Inflation is a more serious problem th	an is deflation.		
165) The statement "Managers with a college education earn \$18 an hour while ski instructors who did		165)	
not complete college earn \$10" is	D) did i		
A) a normative statement.	B) an ethical statement.		
C) a positive statement.	D) a political statement.		
166) The statement "An increase in the price of g	asoline will lead to a decrease in the amount	166)	
purchased" is			
A) a positive statement.	B) a normative statement.		
C) a scientific statement.	D) a political statement.		
167) The statement "The unemployment rate for	toons is higher than that for adults" is	167)	
A) a political statement.	B) an ethical statement.	107)	_
C) a normative statement.	D) a positive statement.		
168) Which of the following is <u>NOT</u> a normative		168)	_
A) The government ought to provide hea	· · · · · · · · · · · · · · · · · · ·		
B) People buy more of a good or service	when its price falls.		
C) The distribution of income is fair.	11		
D) Corporations should be more socially	responsible.		
169) A normative statement concerns		169)	
A) what is provable.	B) what is incorrect.		_
C) what is correct.	D) a value judgment.		
•			

170) Normative economic statements		170)
A) describe what ought to be.		
B) describe the process of economic policy-making	ing.	
C) deal with economic hypotheses that are not w	-	
D) describe what is rather than what ought to be		
171) The statement that "peach ice cream is better than c	hocolate ice cream"	171)
A) is a normative statement.		,
B) can be tested using the scientific approach.		
C) provides a basis for predicting which type of	ice cream will exhibit the most sales.	
D) is a positive statement.		
, 1		
172) The statement "Unemployment should be below 6	percent" is	172)
A) a positive statement.	B) an assumption.	,
C) a prediction.	D) a normative statement.	
-, · I · · · · ·	,	
173) Statements about what ought to be are called		173)
A) implications.	B) normative statements.	
C) assumptions.	D) positive statements.	
-, · · · · · · · · · · · · · · · · · · ·	, ,	
174) Normative statements are statements about		174)
A) what ought to be.	B) prices.	
C) what is.	D) quantities.	
C) What is.	D) qualities.	
175) A normative statement is		175)
A) one that does not use marginal concepts.	B) about what is.	175)
C) always true.	D) about what ought to be.	
c) always true.	D) about what ought to be.	
176) In economics, normative statements are about		176)
A) marginal benefits, not marginal costs.	B) marginal costs, not marginal benefits.	170)
C) the way things ought to be.	D) the way things are.	
C) the way things ought to be.	D) the way timigs are.	
177) TATL: 1 (1) . (1)		155)
177) Which of the following is a normative statement?		177)
A) Popcorn and candy are sold in movie theaters	.	
B) You should eat less candy.		
C) The price of candy bars is \$1.25 each.		
D) Candy bars are more expensive than newspap	pers.	
170) TATE: 1 - C.D C.H		170)
178) Which of the following is a normative statement?	1 1:1	178)
A) Forty percent of the public believes that the u	nemployment rate is too high.	
B) The unemployment rate rose last month.		
C) The unemployment rate is too high.		
D) None of the above are normative statements.		

179) Which of the following is a normative statement?		179)	
A) The main reason why the United States has a tra	ade deficit with China is because China's	_	
trade practices are unfair.			
B) The United States has a comparative advantage	compared to the European Union in the		
production of wheat.			
C) Both these statements are normative.			
D) Neither of these statements is normative.			
180) "Government should act to reduce poverty levels."		180) _	
A) This statement is an example of the <i>post hoc</i> falla	•		
B) This statement is an example of the fallacy of co	mposition.		
C) This statement is a positive statement.			
D) This statement is a normative statement.			
181) When Susan makes the statement, "The government s	should spend less money to take care of	181)	
national parks," she is	should spelle less money to take care of	101) _	
A) not dealing with scarcity.	B) testing an economic model.		
C) making a normative statement.	D) making a positive statement.		
0)	_,		
182) "The rich should pay higher income tax rates than the	e poor" is an example of a	182)	
A) descriptive statement.	B) normative statement.	· -	
C) theoretical statement.	D) positive statement.		
183) Which of the following is a normative statement?		183)	
A) Studying more hours leads to an increase in you			
B) States should require all motorcycle riders to we	ear helmets to reduce the number of riders		
killed.			
C) Taking extra vitamin C prevents catching a cold.			
D) An increase in tax rates means people work few	er nours.		
184) Which of the following is a normative statement?		184)	
A) Owners of apartment buildings are free to charge	ge whatever rent they want.		
B) Low rents are good because they make apartme	· · · · · · · · · · · · · · · · · · ·		
C) Low rents will restrict the supply of housing.	nore unorqueze.		
D) Housing costs are rising.			
-)			
185) Which of the following is a normative statement?		185)	
A) The government's cuts in welfare spending imp	ose an unfair hardship on the poor.	· -	
B) Consumers will buy more gasoline over the Chi	ristmas holiday even if the price of gas is 10		
cents higher than it was during the Thanksgivir	ng holiday.		
C) The current butter surplus is the result of federa	ıl policies.		
D) Next year's inflation rate will be under 4 percen	t.		
10() F		100	
186) Economic models A) always use graphs		186) _	
A) always use graphs.B) are essentially different from those used in othe	r sciences		
C) include all relevant facts.	i sciences.		
D) simplify reality.			
/ - r JJ -			

187) A good economic model		187)
A) includes only those features of the world that a	re needed for the purpose at hand.	
B) describes every aspect of the economic world, v	-	
C) includes all those features of the world that can	be described numerically.	
D) should not include more than two variables.		
100\ A		100)
188) An economic model is		188)
A) a collection of facts that describe the real world.		
B) a statement that describes how the world should C) a description of some aspect of the economic wo		
world that are needed for the purpose at hand.	orid that includes only those features of the	
D) a generalization that summarizes all the normal	ive assumntions we make about a particular	
issue.	ive assumptions we make about a particular	
189) A normative statement is		189)
A) about what ought to be.		
B) one that is based on an economic experiment.		
C) about what is.		
D) always true.		
100\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		100\
190) Which of the following is a positive statement? A) My favorite dinner is pizza and soda.		190)
B) An increase in the price of pizza will lead fewer	students to huy pizza	
C) The government should spend more on educati	* =	
D) The government must provide health insurance		
treatment.	so that the poor can obtain accent medicar	
191) An economic model includes		191)
A) only normative statements.		
B) all known details in order to increase its accurac	cy.	
C) only details considered essential.		
D) no use of marginal concepts.		
100) Till 111 111 111 111 111 111 111 111 111		100)
192) The statement that is a positive statement.	1.1	192)
A) too many people in the United States have no h		
B) the price of sugar in the United States is higher	than the price in Australia	
C) more students should study economics D) the price of goodline is too high		
D) the price of gasoline is too high		
193) Ben Bernanke, Chairman of the Federal Reserve, mus	t choose whether tomorrow he meets with	193)
the Secretary of the Treasury or with the Congress re		/
reflects the		
A) concept of entrepreneurship.	B) use of capital.	
C) fact that Bernanke faces scarcity.	D) fact that Bernanke responds to incentives	
194) When the president of the Bank of America addresses	s Congress regarding lending standards in	194)
that industry, he is discussing		
A) incentives.	B) a macroeconomic topic.	
C) the big tradeoff.	D) a microeconomic topic.	

195) When Ben Bernanke, Chairman of the Federal Reserve, addresses Congress regarding the United		195)	
States role in the world economy, he is discr	ussing		
A) a macroeconomic topic.	B) a microeconomic topic.		
C) incentives.	D) scarcity.		
196) Dell Computers decides to produce PCs and	d sell them directly over the Internet and via Best Buy.	196)	
This is an example of			
A) scarcity.	B) a microeconomic decision.		
C) a macroeconomic decision.	D) incentives.		
197) Consider the following events:		197)	
i. Samsung hires associates to market the	•		
ii. The Dallas Cowboys build a new footba	all stadium.		
iii. Ebay fires 10 percent of its workforce.	I V 10: 1 F 1		
iv. Ten million stocks were traded on the N	New York Stock Exchange in one day.		
v. Pennsylvania builds a new state park.			
Which of the events describe use of factors	of production?		
A) ii, iv, and v B) i and iii only	•		
11) 11, 17, and 7	y C, i, ii, iii, aita v D, iv olity		
198) Panasonic sends its HDTV salespeople to tr	raining sessions. This is an example of	198)	
A) entrepreneurship.	anding sessions. This is an example of		
B) a firm investing in workers' human ca	pital		
C) scarcity.	r ···		
D) a macroeconomic decision.			
,			
199) "When OPEC increases the supply of oil to	the market, the price of gasoline falls." This is an	199)	
example of		, <u> </u>	
A) a normative statement.			
B) a macroeconomic statement.			
C) the failure of opportunity cost to deter	rmine prices.		
D) a positive statement.			
•	n 2009, the Federal Reserve bought stakes in banks.	200)	
This policy will result in an increase in the i	•		
A) a microeconomic statement.	B) an economic model.		
C) a normative statement.	D) a positive statement.		
-	n 2008, the Federal Reserve should not bail out banks	201)	
that made risky loans." This is an example			
A) the Federal Reserve taking actions tha	it are not at the margin.		
B) opportunity costs.C) a normative statement.			
D) a positive statement.			
b) a positive statement.			
202) "OPEC should supply more oil so that the re	world's acanomias can grow more rapidly." This is an	202)	
example of	vorld's economies can grow more rapidly." This is an	²⁰²)	
A) a positive statement.	B) a normative statement.		
C) a decision at the margin.	D) OPEC overcoming scarcity		
,	,		

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 203) What do economists mean when they discuss "scarcity"?
- 204) What is the relationship between wants, factors of production, scarcity, and choices? Discuss the relationship for an individual and for a society.
- 205) Why do economists say that even very rich people face scarcity?
- 206) Explain why both rich and poor people experience scarcity.
- 207) What is the difference between scarcity and poverty?
- 208) Define economics and describe its branches of study.
- 209) What is the difference between microeconomics and macroeconomics?
- 210) What is the difference between microeconomics and macroeconomics? Give an example of an issue each studies.
- 211) Below is a student's answer to the question "What is microeconomics?" If you were the instructor, how would you correct the student's answer?
 "Microeconomics is the study of how government influences the choices made by individuals and businesses and of the performance of the whole national economy."
- 212) China's population is about 1.5 billion, while the population of the United States is about 300 million. This fact means that China has much more human capital than the U.S. does. True or false? Explain your answer.
- 213) Explain what entrepreneurship is and why it is considered a factor of production.
- 214) An analyst on a local news channel argues that the recent corporate scandals "demonstrated very clearly that self interest always contradicts social interest." Do you agree or disagree? Substantiate your answer.
- 215) What is a tradeoff? Give an example.
- 216) What is opportunity cost?
- 217) Your friend is preparing for this exam and in your practice session makes the following statement: "Instead of attending microeconomics class for two hours, Kiki could have played tennis or watched a movie. Therefore, the opportunity cost of attending class is the tennis and the movie she had to give up." Is your friend's analysis correct or not? Explain your answer.
- 218) Rather than go out to eat by yourself, you decide to stay at home and fix dinner for yourself and your two roommates. Your roommates applaud your decision. Your first roommate tells you that your decision to eat at home has no opportunity cost because you already have all the dinner ingredients in your pantry. Is this roommate's comment correct?
- 219) Define marginal cost and marginal benefit.

- 220) In New State, the bottling law requires that people get a refund of five cents when they return an empty bottle or can. Why does the state pay people to return bottles? In your answer, be sure to mention the role played by incentives.
- 221) If the government raises the tax on cigarettes, what is the effect on people's incentives and choices?
- 222) What is the difference between positive and normative statements?
- 223) "The difference between positive and normative statements is that a positive statement is always true while a normative statement might or might not be true." True or false? Explain.
- 224) Two economists can agree that raising the minimum wage creates unemployment yet one might argue that raising the minimum wage is a good policy and the other that it is a bad policy. Why can this difference exist? Be sure to use the terms positive and normative in your answer.
- 225) Explain whether the statement, "There is life on Mars," is a normative or positive statement.
- 226) Explain whether the statement, "Hillary Clinton was elected President of the United States in 2008," is a normative or positive statement.
- 227) What is a normative statement? Give an example.
- 228) Explain whether the statement "The government should increase tariffs on Japanese cars to protect the American car industry from competition," is a normative or positive statement.
- 229) Suppose you are working four nights per week at your courses and your grade point average is 3.5. You want a higher grade and decide to study an extra night each week. Your GPA now rises to 3.8. What is your marginal benefit from studying for one additional night a week?
- 230) Jerry is studying three nights per week and his grade point average is 3.1. He wants a higher GPA and decides to study an extra night each week. His GPA now rises to 3.5. Had Jerry not decided to study an extra night, he would have spent this night with his friends. What is Jerry's marginal benefit from studying for one additional night a week? What is his marginal cost of increasing the study time by one night per week? Why does Jerry decide to study an extra night?

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

231) Scarcity applies to both the rich and the poor.	231)
232) Scarcity affects only those who are in need.	232)
233) Microeconomics is the study of topics such as national production and unemployment.	233)
234) Macroeconomics is the study of aggregate variables such as national production and unemployment.	234)
235) The tools, instruments, machines, and buildings that people use to produce goods and services are called human capital.	235)

236) Most income in the United States is earned by business owners as profit.	236)
237) The United States produces more services than goods.	237)
238) When I buy an \$8.00 movie ticket rather than two paperback books, the opportunity cost of going to the movie is the two paperback books I did not buy.	238)

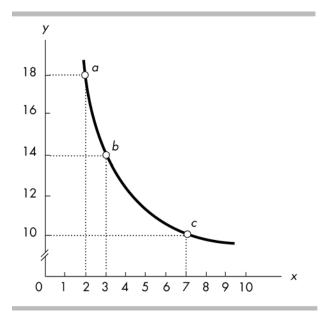
ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 239) Suppose you plan to go to school this summer. The cost of tuition and textbooks is \$1,400 and housing, board, and entertainment will cost you \$500. If you didn't go to school, you'd live in your parents' house for free, but your other living expenses would be about the same. Also, if you didn't go to school you'd work full time and could earn \$8,000. You can still work part time while attending the summer school, but you will earn only \$3,000.
 - a) What will the summer school cost you in terms of money explicitly paid?
 - b) What are the opportunity costs of going to summer school that you don't pay explicitly? Explain.
 - c) What is your total opportunity costs of going to school this summer? Explain your answer.
- 240) Jane is deciding whether to go to school for 8 weeks this summer. The cost of tuition and textbooks is \$1,700 and housing and other expenses will cost her \$600. If she does not go to school, she will live in her parents' house for free and they will cover her food and other expenses for her. Also, if Jane does not go to summer school she could work fulltime. But the best job she can get pays only \$600 per week, and Jane would only agree to give up her free time for no less than \$750 per week. However, if she goes to summer school, she'll have to spend 40 hours a week attending classes and studying.
 - a) What will the summer school cost Jane in terms of money spent?
 - b) What are the opportunity costs of going to summer school that Jane does not pay explicitly? Explain.
 - c) What is Jane's total opportunity cost of going to school this summer? Explain your answer.
 - d) Suppose that if Jane does not go to summer school, she will eventually take the classes anyway. What is Jane's marginal benefit of going to summer school?
 - e) Suppose Jane decides to go to school in the summer. Explain her decision using the concepts of marginal cost and marginal benefit.
- 241) Suppose Canon Inc. decided to invest 45 billion yen in developing and launching a new model of its digital camera, expecting that it will bring additional sales of 60 billion yen. The company has already invested 38 billion yen when the marketing department suddenly finds out that the introduction of a similar camera by Sony will reduce Canon's expected additional sales to 30 billion yen. The company's management is trying to decide whether to continue investing in the new product or close the project. Canon hires you as an economic consultant. So, think like an economist to help the company's management make their decision:
 - a) At this point in time, what is Canon's marginal cost of introducing the new product?
 - b) What is Canon's marginal benefit from introducing the new product?
 - c) Will you advise Canon to finish the project and introduce the new product? Why or why not? What principles of economic thinking will help you analyze the situation and make the right choice?

- 242) Your student association is looking for an auditorium to rent for an all-day conference. The university's Performing Arts Center is vacant on that day, so the association wants to rent it. The physical plant manager tells you that the daily rent is \$660, which includes \$400 to cover part of the cost paid to build the Center, \$40 to cover part of its regular maintenance cost, \$50 to help pay for the building's insurance, \$100 to cover the extra cost of electricity that the university would incur because of the conference, and \$70 to pay for additional janitorial services for the conference. You know that no one else wants to rent the Center on that day and you think that the price that the manager charges is too high. But how much should you pay? Use the economic way of thinking to answer this question and to convince the manager to accept your offer:
 - a) If you rent the Center, what will be the university's marginal cost of renting the center to you?
 - b) If you rent the Center, what will be the university's marginal benefit of renting the center to you?
 - c) What amount of rent should you offer? Convince the manager to accept your offer.

MULTIPLE CHOICE.	Choose the one alternative	that best complet	tes the statement or answe	rs the auestion.
MICEILI LE CHOICE.	Choose the one alternative	tilat best complet	tes the statement of answe	is the question

243) The horizontal axis i	in a graph			243)
A) is named the x -axis.		B) measures time in a scatter diagram.		
C) is named the y -axis.		D) measures the c		
244) The vertical axis in a	a graph			244)
A) is not used in a scatter diagram.		B) is named the x -axis.		
C) is named the <i>y</i>	-axis.	D) has no origin.		
245) The value of the <i>y</i> -coordinate of a point in a graph is the length of a line from the point to the				
A) origin.	B) x -axis.	C) <i>y</i> -axis.	D) scalar.	
246) The value of the x -c	246)			
A) scalar.	B) <i>y</i> -axis.	C) origin.	D) x -axis.	
247) On the horizontal ax	kis of a graph, generally			247)
A) values increase from left to right.		B) values increase from right to left.		· ·
C) values can be positive and/or negative.		D) Both answers A and C are correct.		



248) In the above figure, the x-coordinate of point b is

A) 3. B) 14.

C) 1.

248)

249) In the above figure, the y-coordinate of point b is

A) 1.

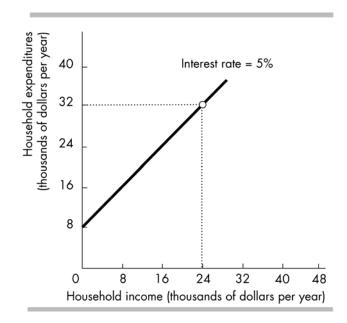
B) 3.

C) 2.

D) 14.

D) 2.

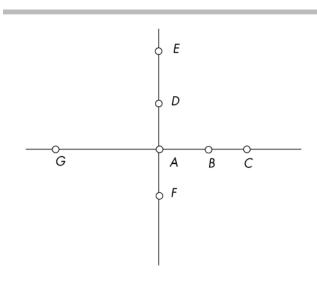
249)



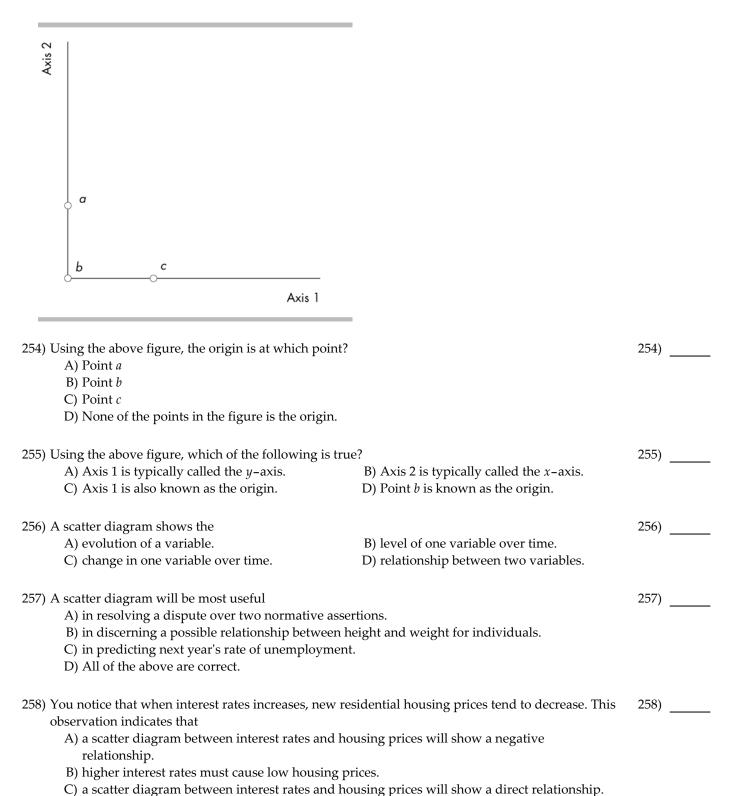
250) In the above figure, when income is zero, household expenditures equal A) 0. B) \$4000. C) \$1000.

D) \$8000.

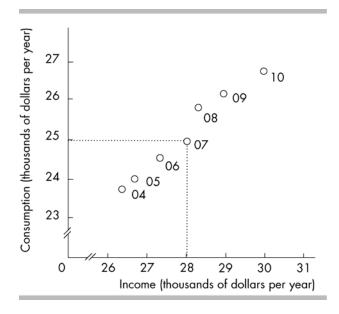
250)



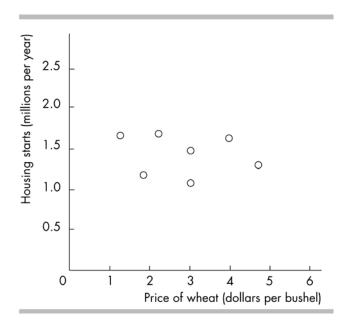
251) In the figure above, the value on the x-axis increases as we move from 251) _ A) point *G* to point *A*. B) point *C* to point *A*. C) point *E* to point *A*. D) point *F* to point *A*. 252) In the figure above, the value on the y-axis decreases as we move from 252) A) point *E* to point *A*. B) point *F* to point *A*. C) point *C* to point *A*. D) point *G* to point *A*. 253) In the figure above, point *B* is ___ 253) B) on the *y*-axis A) on the x-axis C) a coordinate D) at the origin



D) there must be false causality between interest rates and housing prices.



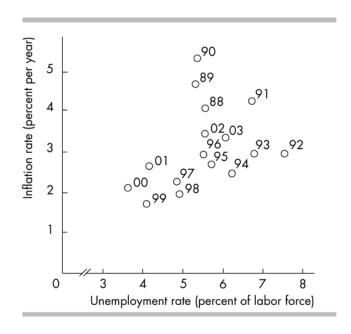
- 259) The above figure plots income and consumption in a nation. In 2007
 - A) consumption was equal to \$25,000 and income was equal to \$25,000.
 - B) consumption was equal to \$27,000 and income was equal to \$31,000.
 - C) consumption was equal to \$28,000 and income was equal to \$25,000.
 - D) consumption was equal to \$25,000 and income was equal to \$28,000.



- 260) The above figure graphs the price of a bushel of wheat and housing starts. The graph shows the variables are
 - A) strongly positively related.
 - C) not related.

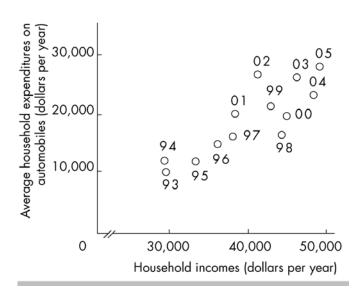
- B) related via an indirect relationship.
- D) strongly negatively related.

260)



- 261) The figure above shows that in 1996, unemployment was equal to about _____ and the inflation 261) ____ rate was equal to about _____.
 - A) 5.5 percent; 3.0 percent
 - C) 3.0 percent; 5.5 percent

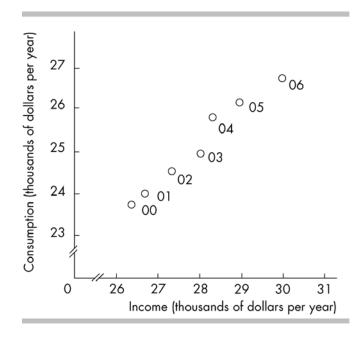
- B) 7.0 percent; 3.0 percent
- D) 6.0 percent; 4.0 percent



262) The above figure reveals

262) ___

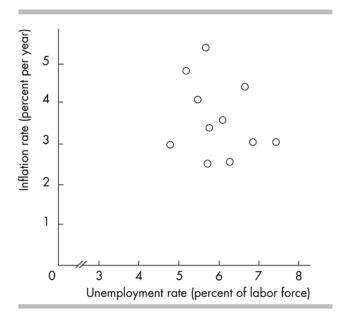
- A) that as household income increases the average household expenditure on automobiles decreases.
- B) that as household income increases the average household expenditure on automobiles increases.
- C) no relationship between household income and average household expenditure on automobiles.
- D) All of the above are possible.



263) In the above figure, the axis breaks are used

263) _____

- A) to indicate that there are not enough data to be included in the graph.
- B) to show that there are no data available for the omitted ranges.
- C) to create a misleading graph.
- D) to indicate that there are jumps from the origin, 0, to the first values recorded along the axes.



264) In the above figure, the axis break in the x-axis

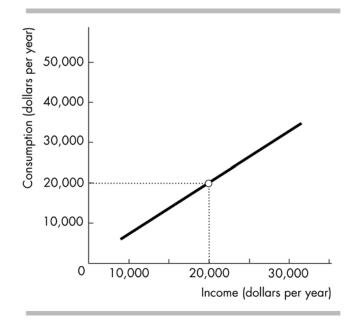
- 264)
- A) implies that for the years covered in the figure, the inflation rate was always greater than 1 percent.
- B) misleadingly shows that inflation has changed very little even though the unemployment rate has increased a great deal.
- C) reflects the fact that for the years covered in the figure, the unemployment rate was never less than 3 percent.
- D) shows that there is no relationship between inflation and unemployment.
- 265) On a graph, high correlation between the variable measured along the x-axis and the variable measured along the y-axis

265)

- A) means that changes in the variable measured along the x-axis must cause changes in the variable measured along the y-axis.
- B) does \underline{NOT} mean that a change in the variable measured along the x-axis must cause a change in the variable measured along the y-axis.
- C) means that changes in the variable measured along the y-axis must cause changes in the variable measured along the x-axis.
- D) means that changes in either variable must cause changes in the other variable.
- 266) You notice that when the inflation rate increases, the interest rate tends to increase. This observation indicates that

266) ___

- A) the variables have an inverse relationship.
- B) higher inflation rates must cause a higher interest rate.
- C) a scatter diagram of the inflation rate and the interest rate will show a positive relationship.
- D) there might be false causality between inflation and the interest rate.



267) In the figure above, when income equals \$20,000, what does consumption equal?		267)
A) \$10,000 C) \$0	B) \$20,000 D) impossible to tell	
268) If two variables are positively related, then		268)
A) they move in opposite directions.	B) they move in the same direction.	,
C) their graph will have a negative slope.	D) they are independent of each other.	
269) If two variables both increase at the same time or	decrease at the same time, they are	269)
A) conversely related.	B) positively related.	,
C) negatively related.	D) unrelated to each other.	
270) If there is a direct relationship between two varia	bles,	270)
A) the slope of the line (or the slope of a tanger		/
B) the graph of the relationship will be upward		
C) the graph of the relationship will be downw		
D) Both answers A and C are correct.		
271) The variable measured on the <i>y</i> -axis increases w	henever the variable measured on the x -axis	271)
increases. As a result, the relationship between th	ne variables will	
A) have a slope of zero.	B) be negatively sloped.	
C) be a vertical line.	D) be none of the above.	
272) A positive relationship exists between two variab		272)
A) one variable has "positively" no effect on the	e other variable.	

B) a reduction in one variable is associated with an increase in the other variable.

D) a reduction in one variable is associated with a decrease in the other variable.

C) both variables are inflation-distorted.

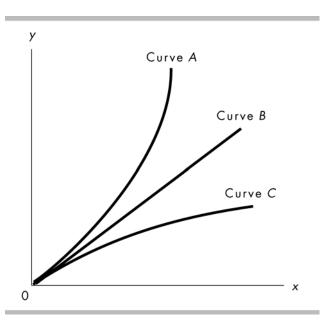
- 273) If the slope of a line that graphs the relationship between variable x and variable y is positive, then we know that
 - 273)
 - A) when the value of variable *x* increases, then the value of variable *y* decreases. B) when the value of variable *x* decreases, then the value of variable *y* decreases.
 - C) the two variables have an inverse relationship.
 - D) the two variables are unrelated.
- 274) For the Jones household it has been estimated that for every ten degrees increase in the outdoor temperature the consumption of ice tea increases by 5 glasses. What type of relationship exists between temperature change and the consumption of ice tea?
- 274) _

A) negative relationship

B) no relationship

C) maximum relationship

D) positive relationship



275) In the above figure, which curve shows a positive relationship between *x* and *y*?

275) _

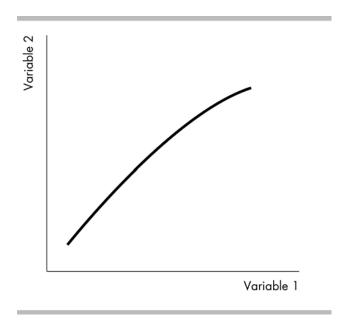
- A) Only curve A.
- B) Only curve B.
- C) Only curve *C*.
- D) All the curves show a positive relationship.
- 276) In the above figure, which curve shows a negative relationship between x and y?

276) _

- A) Only curve A.
- B) Only curve B.
- C) Only curve C.
- D) None of the curves show a negative relationship.

- 277) A scatter diagram with the price of vacations to Mexico on the vertical axis and the price of vacations to California on the horizontal axis shows a positive relationship. If the price of vacations to Mexico were placed on the horizontal axis, and the price of vacations to California on the vertical axis, the relationship would be
- 277) _____

- A) positive relationship, also called a direct relationship.
- B) negative relationship, also called a direct relationship.
- C) positive relationship, also called an inverse relationship.
- D) negative relationship, also called an inverse relationship.



- 278) The figure above shows _____ relationship between the two variables. 278)

 A) a positive B) an inverse C) a negative D) no
 - Ty a positive b) an inverse c) a negative b) no
- 279) "As you devote more hours to studying, your GPA increases." A graph of this relationship would 279)
 - A) a positive relationship. B) a direct relationship.
 - C) an inverse relationship.

 D) Both answers A and B are correct.
- 280) "As interest rates rise, people save more money." A graph displaying this relationship would show 280)
 - A) a cross–section graph.

 B) a positive relationship.
 - C) an inverse relationship. D) a positive then a negative relationship.
- 281) "If you hire 1 worker, the worker can produce 20 pizzas a day. If you hire a 2nd worker, that worker can produce 10 more pizzas. If you hire a 3rd worker, that worker can produce 2 more pizzas a day." A graph displaying this relationship between the number of employees and *total* pizza output per day would show
 - A) a negatively-sloped curve that becomes less steep.
 - B) an upward-sloping curve that becomes less steep.
 - C) a positive linear relationship.
 - D) a negative linear relationship.

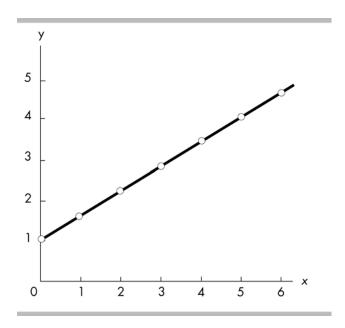
hours your score increase by 5 mostudied and you A) an upward B) an upward	e increases by ore points. A g r total exam so l-sloping curv l-sloping curv linear relations	•	score will
you produce 15 the relationship A) a negativel B) a negativel C) a positivel	bikes. Finally, between total y-sloped line y-sloped line y-sloped line	a day for a total cost of \$1000. Total costs increase to \$ total costs increase to \$1300 if you make 20 bikes. A gr costs and the number of bikes produced would be that becomes flatter. that becomes steeper. that becomes flatter. that becomes steeper. That becomes steeper.	· · · · · · · · · · · · · · · · · · ·
total household A) directly wi B) inversely v C) negatively	able above sho income. Based th their total h vith their total with their inco	d consumption (dollars) 27,000 35,000 38,000 ows the relationship between the Joneses' total consum on these data, total consumption varies cousehold income. household income. tal household income.	nption and 284)
x 0 2 4 6 8 10 285) In the above tab.	y 0 6 12 18 24 30	reases from 4 units to 6 units, y changes by u	nits. 285)
A) 2 286) The above table A) positively C) negatively	B indicates that related.	D) -2 D) -	

x	y
0	2
1	5
2	8
3	11
4	14
5	17

287) Given the information in the above table, the relationship between x and y is

287) ___

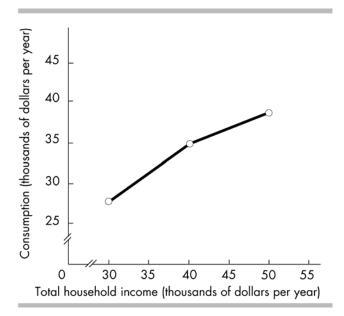
- A) negative and linear.
- B) positive, and the curve becomes steeper as *x* increases.
- C) positive, and the curve becomes flatter as *x* increases.
- D) positive and linear.



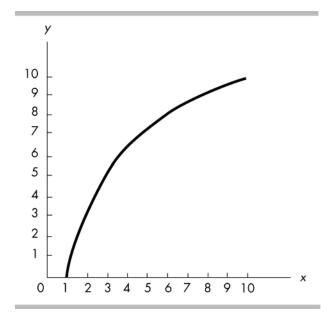
288) In the above figure, the relationship between x and y is

- A) positive, and the curve becomes steeper as x increases.
- B) positive, and the curve becomes flatter as *x* increases.
- C) negative and linear.
- D) positive and linear.

288) __



- 289) The above figure shows the relationship between the Joneses' total consumption and total household income. The figure illustrates that the Joneses' total consumption varies
 - A) inversely with their total household income.
 - B) independently of their total household income.
 - C) negatively with their income.
 - D) directly with their total household income.

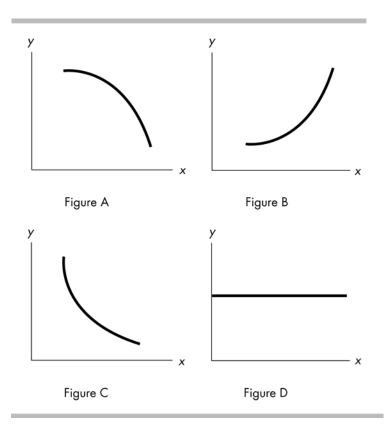


- 290) The relationship depicted in the above figure is
 - A) a positive becoming less steep relationship.
 - B) a negative linear relationship.
 - C) a positive becoming steeper relationship.
 - D) a positive linear relationship.

289)

291) Whenever one variable increases, another var	riable decreases. The two variables are	291)
A) definitely related through a third variable.		
B) negatively related.		
C) unrelated to each other.		
D) positively related.		
, 1		
292) If variable x always increases when variable	y decreases r and y are said to be	292)
A) trend related.	B) unrelated.	
C) positively related.	D) negatively related.	
c) positively related.	D) negatively related.	
293) If there is an inverse relationship between va	riable x and variable y , then an increase in the value	293)
of variable x will be accompanied by	riable x and variable y, then an increase in the value	273)
A) an increase in the value of variable <i>y</i> .	B) a decrease in the value of variable <i>y</i> .	
C) variable <i>y</i> reaching its maximum value.	· · · · · · · · · · · · · · · · · · ·	
c) variable y feaching its maximum value.	. D) no change in the value of variable y.	
294) If there is an inverse relationship between tw	o variables the graph of this relationship	294)
A) might be horizontal.	* -	<u> </u>
	B) will be downward-sloping.	
C) will be upward-sloping.	D) will be a horizontal line.	
205) A	wishla massacra dislana tha massican ditha massichla	205)
measured along the <i>x</i> -axis if	ariable measured along the y -axis and the variable	295)
	ong the x axis is associated with a reduction in the	
	ong the x -axis is associated with a reduction in the	
variable measured along the <i>y</i> -axis.		
_	and the variable measured along the y -axis move in	
the opposite direction.	ong the x -axis is associated with an increase in the	
variable measured along the <i>y</i> -axis.	ong the x-axis is associated with an increase in the	
g ţ	and the variable measured along the <i>y</i> -axis move in	
the same direction.	and the variable measured along the y-axis move in	
the same direction.		
296) Along a curve when one variable increases	the other variable decreases. The curve showing this	296)
relationship	and other variable decreases. The carve showing and	
A) might be horizontal.		
B) has a negative slope.		
C) has a positive slope.		
D) has an increasing then a decreasing slop	ne	
D) has an increasing their a decreasing stop	<i>5</i> C.	
297) "As the price of gasoline increases, fewer peo	ple buy cars that are gas guzzlers." A graph showing	297)
this relationship would have	pro cury cure unit are gue guizzieres in graph este wing	
A) a negative slope.	B) a direct relationship.	
C) a horizontal line.	D) a positive relationship.	
c) a nonzonai mic.	D) a positive relationship.	
298) A graph shows that as fees to use ATM mach	nines increase, people use them less frequently. The	298)
graph of this relationship would show	and increase, people use them less frequently. The	
A) an inverse relationship.	B) a negative relationship.	
C) a direct relationship.	D) Both answers A and B are correct	

299) As the number of days without rain increases, the amount of wheat per acre grown declines. A		299)
graph showing this relationship would have a curve	D) that is a hard-sected line	
A) showing a positive relationship.	B) that is a horizontal line.	
C) that is a vertical line.	D) None of the above answers are correct.	
300) As a firm produces more and more CDs, the average	cost of producing each CD falls. A curve	300)
showing the behavior of the average cost of a CD as I	nore CDs are produced	
A) would be positively and then negatively-sloped	d.	
B) would be horizontal.		
C) would be positively sloped.		
D) would be negatively sloped.		
301) Suppose that we find that student grades and time sp	pent at parties move in opposite directions. A	301)
graph of the relationship between these two variables		,
A) upward and may be linear or nonlinear.		
B) downward and be linear.		
C) downward and may be linear or nonlinear.		
D) upward and be linear.		
302) The faster an automobile is driven (speed), the lower	the miles per gallon (mpg) for that	302)
automobile. Given this information, we say that an a		
A) a maximum relationship.	B) a linear relationship.	
C) a direct relationship.	D) an inverse relationship.	
202) If the country of continued and the country of		202)
303) If the quantity of wood purchased decreases when these variables would have	e price of wood rises, a graph representing	303)
A) the slope on the vertical axis.	B) a negative slope.	
C) a positive slope.	D) time on the vertical axis.	
c) a positive stope.	2) time on the vertical artis.	
304) A scatter diagram with the price of peanut butter on	the vertical axis and the price of jelly on the	304)
horizontal axis shows a negative relationship. If the p		
and the price of peanut butter was placed on the hori		
A) negative relationship, also called an inverse rela		
B) positive relationship, also called a direct relationship.		
C) positive relationship, also called an inverse rela		
D) negative relationship, also called a direct relationship.		



- 305) In the above figure, if there is a negative relationship between the variables x and y, which of the graphs above can be used to indicate this?
- 305)

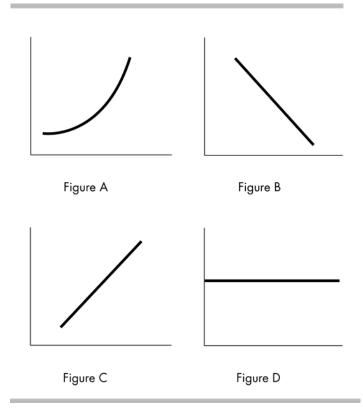
A) Figure A

B) Figure B

C) Figure C

- D) both Figure A and Figure C
- 306) In the above figure, which of the graphs demonstrates a curve with a decreasing slope, that is, a slope getting smaller in magnitude as *x* increases?
- 306)

- A) Figure A
- B) Figure B
- C) Figure C
- D) Figure D



307) In the above figure, a negative relationship is demonstrated in which of the graphs?

A) Figure A

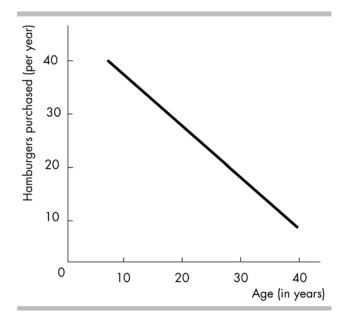
B) Figure B

C) Figure C

D) Figure C

307)

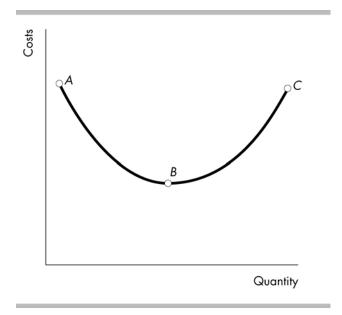
D) Figure D



308) The above figure depicts a

308)

- A) negative non-linear relationship between age and the number of hamburgers purchased per year.
- B) positive non-linear relationship between age and the number of hamburgers purchased per year.
- C) positive linear relationship between age and the number of hamburgers purchased per year.
- D) negative linear relationship between age and the number of hamburgers purchased per year.

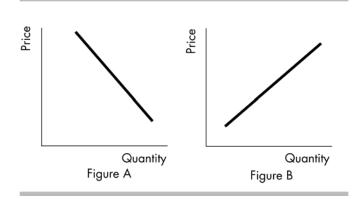


- 309) In the above figure, the relationship between costs and quantity is negative
 - A) between point *A* and point *B*.

B) along the entire curve.

C) no where along the curve.

D) between point *B* and point *C*.



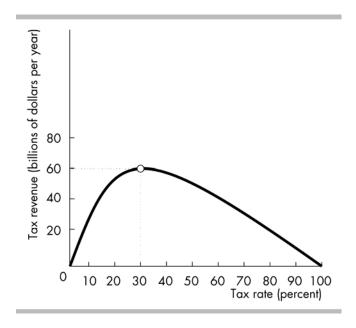
A) a relationship with a maximum.

C) a relationship with a minimum.

310) In the above, a positive relationship between price and quantity is shown in 310) _ A) Figure A B) Figure B C) neither Figure A nor Figure B D) both Figure A and Figure B 311) In the above figure, a negative relationship between price and quantity is shown in 311) A) Figure A. B) Figure B. C) Neither Figure A nor Figure B. D) Both Figure A and Figure B. 312) If a graph shows a negative relationship between two variables which then becomes a positive 312) relationship, this curve would A) have a minimum point. B) always be a downward-sloping line. C) have a maximum point. D) always be an upward-sloping line. 313) ____ 313) As a firm expands its output, cost per unit of output (average cost) decreases and then increases. Average cost and output have

B) no relationship.

D) a linear positive relationship.



- 314) In the above figure, the relationship between the tax rate and tax revenue is positive and becoming less steep between tax rates of
 - 314)

A) 0 percent and 100 percent.

B) 0 percent and 30 percent.

C) 30 percent and 100 percent.

- D) None of the above answers are correct.
- 315) In the above figure, if the tax rate is increased from 20 percent to 30 percent, tax revenue
- 315) _

A) increases.

B) may increase or decrease.

C) is constant.

- D) decreases.
- 316) In the above figure, tax revenue is at a maximum when the tax rate is

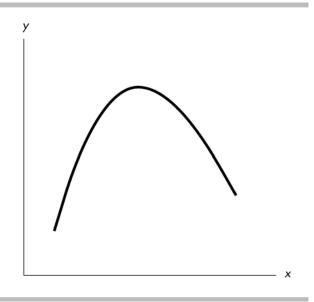
316)

317)

- A) 100 percent.
- B) 0 percent.
- C) 30 percent.
- D) 50 percent.

317) As a curve approaches a maximum point, the slope will

- A) be positive, then negative after the maximum point.
- B) remain constant on either side of the maximum point.
- C) be negative, then positive after the maximum point.
- D) increase before and after the maximum point.



318) In the figure above, the relationship between the x variable and the y variable

318)

- A) is positive.
- B) starts by being positive and then becomes negative.
- C) starts by being negative and then becomes positive.
- D) is negative.

	Average cost of
Total number	producing a
of workers	television set
	(dollars)
4	125
10	75
13	77
15	85

319) Graphing the data in the above table with the number of workers on the horizontal axis and the average cost on the vertical axis, the graph would show

319) _____

- A) a linear relationship.
- B) a horizontal line.
- C) no relationship.
- D) first a negative and then a positive relationship.
- 320) If a curve rises and then falls, it shows a

320)

A) constant slope relationship.

B) minimum.

C) linear relationship.

- D) maximum.
- 321) If a curve falls and then rises, it shows

321) ___

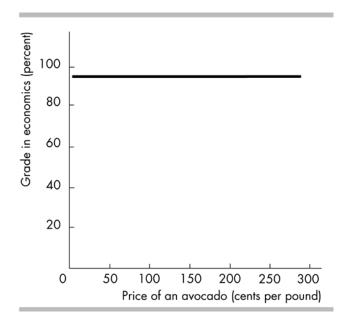
A) a constant slope relationship.

B) a minimum.

C) a maximum.

D) a linear relationship.

322) When <i>y</i> changes, <i>x</i> stays the same. The line depict	cting this relationship would be	322)
A) linear with a positive slope.	B) linear with a negative slope.	
C) vertical.	D) horizontal.	
323) A graph measures y on the vertical axis and x or	n the horizontal. The curve on the graph is a	323)
horizontal line. From this fact we know that		
A) the ratio of x to y is constant.		
B) the value of <i>y</i> does not depend on the value	e of x.	
C) the value of x never changes.	u novem changes	
D) the slope of the line is not defined because	y never changes.	
324) A graph measures y on the vertical axis and x or	n the horizontal. The curve on the graph is a	324)
vertical line. From this fact we know that		
A) the ratio of y to x is constant.		
B) the value of <i>y</i> is constant.		
C) the value of x does not change when the va	alue of y changes.	
D) the ratio of x to y is constant.		
325) The graph of two variables, x and y , is a horizon	tal line. This result indicates that x and y are	325)
A) negatively related.	B) positively related.	
C) not related.	D) falsely related.	
,	, ,	
326) A diagram shows the quantity of tomatoes on th	e horizontal axis and the quantity of coffee on the	326)
vertical axis. The quantity of tomatoes remains c	- ·	,
graph of these data is		
A) a vertical line.	B) a positively sloped line.	
C) a horizontal line.	D) a negatively sloped line	
327) A graph shows the price of a pound of cucumber	rs on the vertical axis and the quantity of new cars	327)
sold by GM on the horizontal axis. The price of a	• •	<u> </u>
quantity of new cars sold increases. The graph of		
A) a curve with a maximum.	B) a vertical line.	
C) a positively-sloped line.	D) a horizontal line.	
328) If two variables are unrelated, a scatter diagram	of those variables will	328)
A) be a vertical line.	B) be either a vertical or horizontal line.	
C) have a constant positive slope.	D) be a horizontal line.	



329) Which of the following correctly describes the above figure?

329) _____

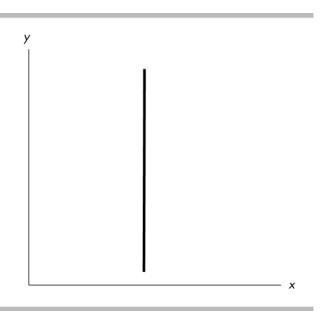
- I. There is no relationship between the price of an avocado and a student's grade in economics.
- II. The value of variable measured on the y-axis is constant as the variable measured on the x-axis increases.
- III. As a student's grade in economics increases, the price of an avocado increases.

A) I, II, and III

B) I and II

C) II and III

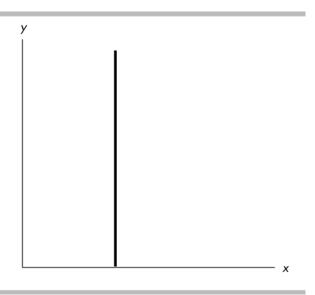
D) I



330) In the above, as the y variable increases

A) the *x* variable is constant.

- B) the *x* variable at first increases but then decreases.
- C) the *x* variable decreases.
- D) the *x* variable increases.

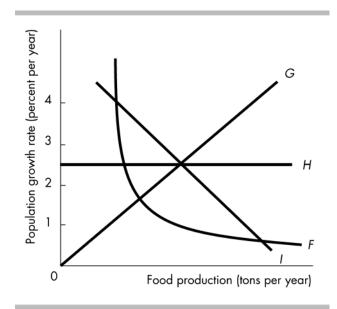


331)

332) _____

331) Which of the following correctly describes the above figure?

- A) There is a negative relationship between x and y.
- B) There is a positive relationship between x and y.
- C) There is no relationship between x and y.
- D) None of the above answers are correct.



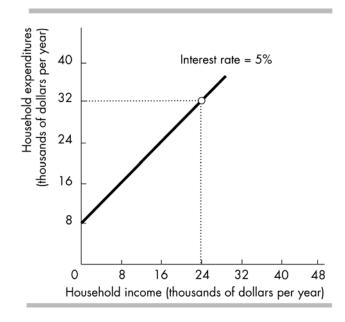
332) In the above figure, which curve indicates that the level of food production does not affect the population growth rate?

A) I

B) *H*

C) F

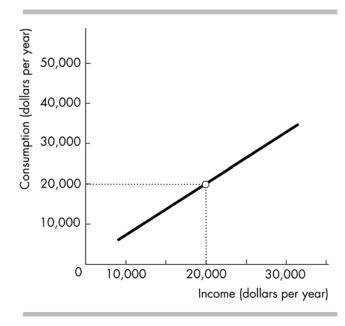
D) *G*



C) negative relationship.

333) In the above figure, the relationship between income and expenditures is 333) A) random. B) positive. C) independent. D) negative. 334) The relationship in the above figure suggests that when the interest rate is 5 percent, 334) A) a decrease in income will be associated with an increase in expenditures. B) an increase in income will be associated with a decrease in expenditures. C) a decrease in income will be associated with a decrease in expenditures. D) there is no relationship between expenditures and income. 335) If variables x and y move up and down together, they are 335) A) trend related. B) unrelated. C) positively related. D) negative related. 336) The term "direct relationship" means the same as 336) A) trend. B) positive relationship.

D) correlation.

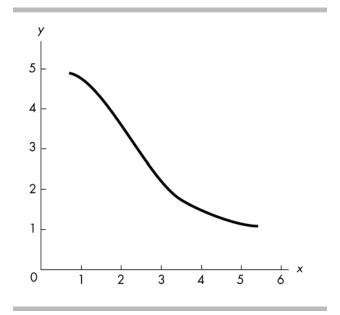


- 337) The relationship between income and consumption illustrated in the figure above is
 - A) negative and nonlinear.

B) positive and nonlinear.

C) negative and linear.

D) positive and linear.



- 338) The figure above shows
 - A) a direct relationship.
 - C) a negative relationship.

- B) a positive relationship.
- D) no relationship between the variables.
- 339) The relationship between two variables, x and y, is a vertical line. Thus x and y are
 - A) not related.
 - C) negatively correlated.

B) positively correlated.D) falsely related.

339)

338)

337) _

y arc 557) _

340) The slope of a line equals the		340)	
A) change in the variable measured along the measured along the <i>y</i> -axis.	x-axis divided by the change in the variable		
C v	x-axis minus the change in the variable measured		
C) change in the variable measured along the x -axis.	y-axis divided by the change in the variable		
D) change in the variable measured along the measured along the <i>y</i> -axis.	c-axis multiplied by the change in the variable		
341) A curve is plotted with <i>y</i> measured on the vertical	al axis and x measured on the horizontal axis. The	341)	
slope of the curve equals A) y divided by the change in x .			
B) the change in y divided by x .			
C) y divided by x .			
D) the change in y divided by the change in x .			
342) The slope of a line		342)	
A) is always a constant.			
the value of the x -axis variable.	e of the y -axis variable relative to the change in		
C) can never equal zero.	lative to the value of the very evice vericele		
D) measures the value of the y -axis variable re	Tative to the value of the x -axis variable.		
343) The slope of a positive relationship is		343)	
A) undefined.			
B) constant as long as the relationship is nonlin			
C) positive to the right of the maximum point of D) positive.	and negative to the left.		
344) In which of the following cases is the slope of a li	ne positive?	344)	
A) As x increases, y remains the same.			
B) As <i>x</i> increases, <i>y</i> increases.			
C) As <i>x</i> increases, <i>y</i> decreases.			
D) As <i>x</i> increases, <i>y</i> equals a positive number.			
345) If a large change in the variable measured on the		345)	
variable measured on the y -axis, the line isA) either downward or upward-sloping; smal			
B) upward-sloping; small			
C) downward-sloping; large			
D) downward-sloping; small			
346) Suppose we are considering the relationship betw	· · ·	346)	
y-axis and x is measured on the x -axis, and the r	-		
is associated with	is less than 1. This slope means that a change in x		
A) a bigger change in <i>y</i> .	B) an equal change in <i>y</i> .		
C) no change in <i>y</i> .	D) a smaller change in <i>y</i> .		

Suppose that the slope A) a change in <i>x</i> is a B) a change in <i>x</i> is a C) a change in <i>x</i> is a	lering the relationship betweed on the x -axis, and the relationship of the line is equal to 1. The sociated with no change it is sociated with an equal charscociated with a smaller charscociated with a bigger charscociated with a bigger charscociated with a bigger charscociated with a significant charscociated with a bigger charscociated with a bigger charscociated with a significant charscociated with a bigger char	elationship between the is slope means that ny. any. ange in y. ange in y.	· ·	347)
Suppose that the slope A) a change in <i>x</i> is a B) a change in <i>x</i> is a C) a change in <i>x</i> is a	lering the relationship betweed on the x -axis, and the relationship of the line is greater than 1 associated with no change in associated with an equal charscociated with a bigger charscociated with a smaller charsco	elationship between the x . This slope means that x and y . The x ange in y . The x ange in y .	en is a straight line.	348)
decreases. B) As the variable n decreases. C) As the variable n decreases.	ing cases is the slope of a limeasured on the x -axis increasured on the x -axis decineasured on the y -axis increasured on the y -axis i	eases, the variable mea reases, the variable mea eases, the variable mea	sured on the y -axis as sured on the y -axis sured on the x -axis	349)
350) In a graph, a line has a	negative slope if			350)
A) the line is vertica C) the line is horizo	1.	B) the line rises fr D) the line rises fr	<u> </u>	,
351) Suppose that for a cur	ve, as the variable measure	d on the x -axis increase	es, the variable measured	351)
*	s. The curve has a	_	D) tangant	
A) negative	B) hypothetical	C) positive	D) tangent	
352) If the slope of the relat	ionship between savings ar	nd interest rates is 0.5, t	hen	352)
B) savings and inter C) savings and inter	rest rates have a negative re rest rates have no relationsh rest rates have an inverse re rest rates have a positive rel	nip. elationship.		
353) If an increase in x (the		-	auses a decrease in y (the	353)
	l axis) from 4 to 3 units, the $(B) = 1/2$		D) 2	

x	y
0	0
2	6
4	12
6	18
8	24
10	30

354) In the table above, y is measured along the y-axis and x along the x-axis. The slope of the relationship between x = 0 and x = 2 is

354) _____

A) 2.

B) 3.

C) -6.

D) 6.

X	y
10	50
9	70
8	100
7	130
6	170
5	220

355) In the table above, y is measured along the y-axis and x along the x-axis. What is the value of the slope between the x = 8 and x = 6?

355)

A) 70

B) -35

- C) -0.057
- D) -19.28

Point	X	Y
a	100	50
b	200	75
С	300	100
d	400	100
e	500	75
f	600	50

356) In the table above, Y is measured along the y-axis and X along the x-axis. The slope between points a and b is

356)

- A) -0.25.
- B) 25.

- C) 0.25.
- D) 4.

357) In the table above, Y is measured along the y-axis and X along the x-axis. The slope between points c and d is

357) _____

A) -4.

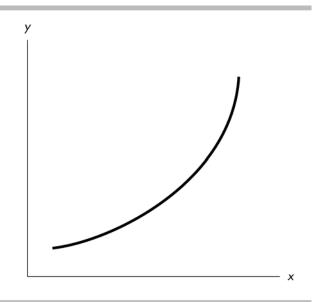
- B) 100.
- C) 0.25.
- D) 0.

358) In the table above, Y is measured along the y-axis and X along the x-axis. The slope between points e and f is

358) _____

- A) -25.
- B) -0.25.
- C) 4.

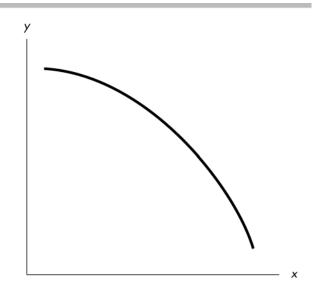
D) 0.25.



359)

359) In the above figure, the curve has a slope that is _____

- A) positive and becoming smaller in magnitude
- B) negative and becoming smaller in magnitude
- C) negative and becoming larger in magnitude
- D) positive and becoming larger in magnitude



360) ____

360) In the above figure, the curve has a slope that is _____.

- A) negative and becoming larger in magnitude
- B) positive and becoming smaller in magnitude
- C) negative and becoming smaller in magnitude
- D) positive and becoming larger in magnitude

x	y
0	4
1	5
2	8
3	13
4	20

· · · · · · · · · · · · · · · · · · ·	ne relationship between x are between $y = 5$ and $y = 8$ is	C	y measured on the	361)
A) positive; 5	č č	C) negative; 6	D) negative; 8	
362) The slope of a straigl	ht line is			362)
A) increasing.	B) decreasing.	C) variable.	D) constant.	
363) The slope of a straigl	ht line is			363)
A) constant.		B) calculated as y/x	at any point.	
C) always equal to	o zero.	D) always greater the	2 1	
364) With <i>y</i> measured on line is defined as	the vertical axis and x meas	sured on the horizontal ax	is, the slope of a straight	364)
A) y/x .		B) x/y .		
C) (change in x)/ (change in y).	D) (change in y)/ (c	hange in x).	
365) Along a straight line slope of the straight	, when x equals 90, then y ed line is	quals 30. When x equals 1	20, then y equals 40. The	365)
A) 1/3.	B) 3.	C) -1/3.	D) -3.	
366) Along a straight line	, the value of y is always eq	ual to the value of x . The s	slope of the line is	366)
A) infinite.	B) -1.	C) 1.	D) 0.	,

x	y
0	0
1	3
2	6
3	9
4	12
5	15

367) Using the data in the table above, with y measured on the vertical axis, the slope of the line	367)	
relating y to x is		

A) 3.

B) 1/3.

C) 6.

D) 1.

<i>x</i> -variable	<i>y-</i> variable
(on the horizontal axis)	(on the vertical axis)
10	28
15	31
20	34

368)) The above table shows data on two variables. If th	ese data were graphed,	the slope of the line
	would be		-

368)

- A) 3.
- B) 5/3.
- C) 3/5.
- D) impossible to determine from the information given.

<i>x</i> -variable	<i>y-</i> variable
(on the horizontal axis)	(on the vertical axis)
8	14
10	18
12	22

369) The above table gives data on two variab	les. If these data	were graphed,	the slope of	the line
would be			_	

369) _

A) -4.

B) 1.

C) -2.

D) 2.

370) The above table gives data on two variables. If these data were graphed, their relationship would B) nonexistent.

370)

- A) be a curved line.
- C) be a straight line.

D) show a negative relationship.

<i>x</i> -variable	<i>y-</i> variable		
(on the horizontal axis)	(on the vertical axis)		
100	50		
200	125		
300	200		

371)	The above table shows data on two variables.	If these data were graphed,	the slope of the line
	would be		_

371) ____

- A) 4/3.
- B) 1/2.
- C) 2/3.
- D) 3/4.

Quantity	Price
0	50
8	40
16	30
24	20
32	10
36	5

2 - 2	T T . •	11	1	•	11	. 1	1 - 1 - 1 -
3//	ilisinσ	tne	crata	ın	tne	anowe	tanie
J / _	Using	uic	aata	TIL	uic	above	undic,

372) _____

373)

- A) an increase in price is likely to cause an increase in quantity.
- B) the variables quantity and price are neither positively nor negatively related.
- C) the variables quantity and price are negatively related.
- D) the variables quantity and price are positively related.

373) If we use the numbers in the above table to draw a graph, with the price on the vertical axis and the quantity on the horizontal axis, the line relating price and quantity has a slope of

A) 8.0.

B) 0.8.

C) -8.0.

D) -1.25.

Income	Amount spent on
(dollars per	restaurant meals
month)	(dollars per month)
50	20
100	40
150	60
200	80

374) Using the data in the above table, if income is on the x-axis and the amount spent on restaurant meals is on the y-axis, the graph of the two variables would be

374) ____

A) horizontal.

B) vertical.

C) upward sloping.

D) downward sloping.

375) Using the data in the above table, if income is on the x-axis and the amount spent on restaurant meals is on the y-axis, the slope of the straight line graph equals

375) ____

A) 0.5.

B) 0.2.

C) 0 $\overline{4}$

D) 2.5.

χ	у
100	500
200	300
300	100
400	-100

376) Based on the information in the table above, what is the relationship between x and y?

376)

A) inverse

B) direct

C) positive

D) No relationship exists between x and y.

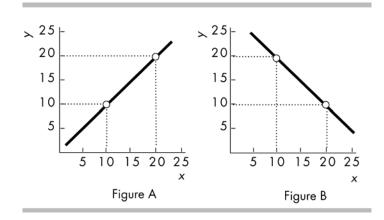
377) Using the information in the table above, what does the slope of the line between x and y equal?

377) ____

A) 2

- B) -0.5
- C) -2

D) 5



378) In the above, which figure shows a linear relationship?

378)

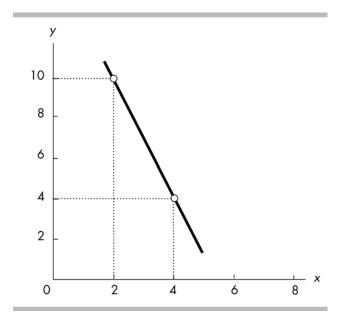
- A) Figure A
- C) both Figure A and Figure B

- B) Figure B
- D) neither Figure A nor Figure B
- 379) In the above, which figure shows a line with a slope of 1.0?

379)

- A) Figure A
- C) both Figure A and Figure B

- B) Figure B
- D) neither Figure A nor Figure B



380) The slope of the line shown in the above figure is

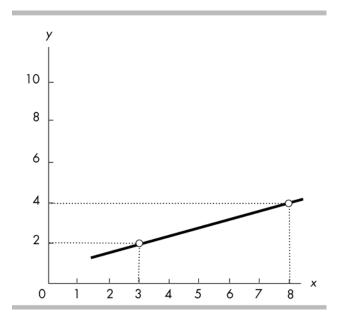
380)

A) -3.

B) -1.

C) -5.

D) -1/3.



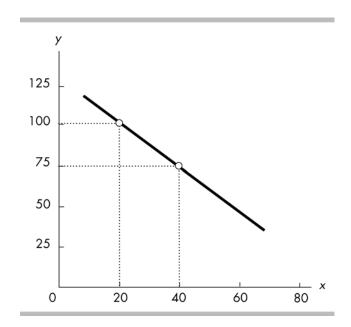
A) 5.

B) 2/3.

C) 2/5.

D) 5/2.

381) _____



382) The slope of the line shown in the above figure is

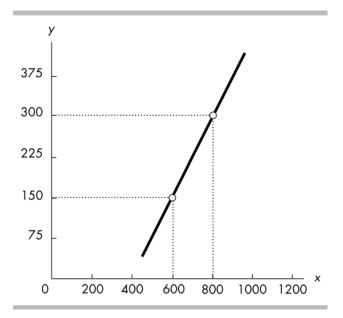
A) -1.25.

B) -1 2/3.

C) -1 1/3.

D) -0.80.

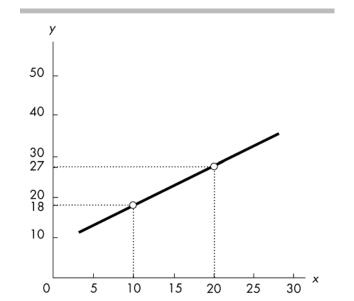
382) _____



383) The slope of the line shown in the above figure is A) 0.25. B) 2.

C) 0.75.

D) 1 1/3.



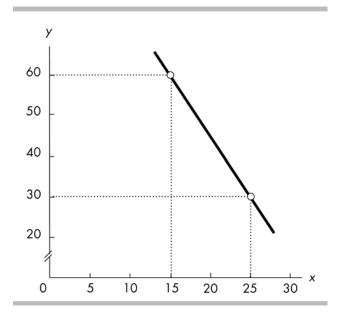
384) The slope of the line shown in the above figure is A) 2.

B) 0.90.

C) 1.5.

D) 1.11.

384) _



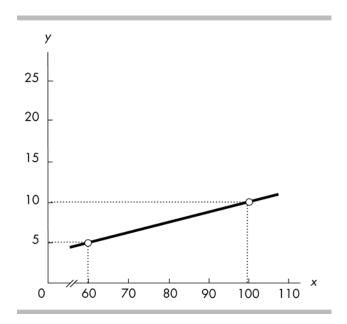
A) -4.

B) -1/3.

C) -1/2.

D) -3.

385) _____



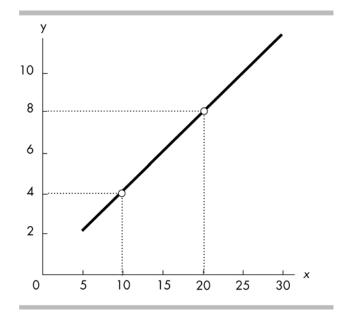
386) The slope of the line in the above figure is

A) 0.05.

B) 8.

C) 0.10.

D) 0.125.

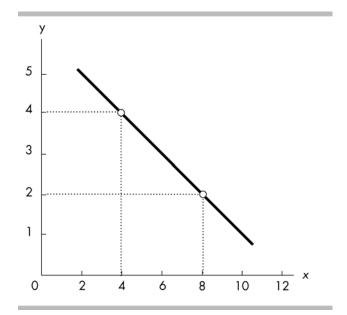


A)
$$5/2 = 2.5$$
.

B)
$$-2/5 = -0.4$$
.

C)
$$-5/2 = -2.5$$
.

D)
$$2/5 = 0.4$$
.

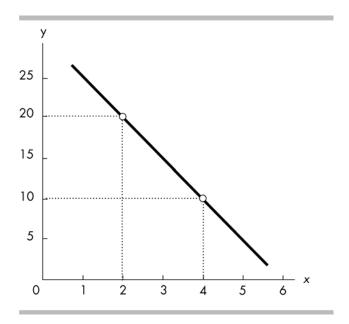


388) The slope of the line in the above figure is

A)
$$-2$$
.

B)
$$-1/2 = -0.5$$
.

D)
$$1/2 = 0.5$$
.



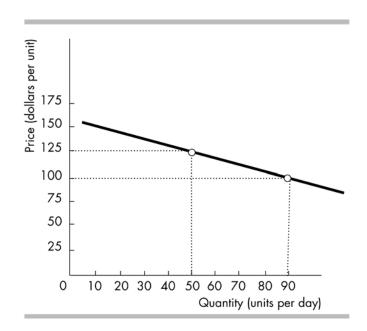
A) -5.

B) -10.

C) 5.

D) 10.

389) _____



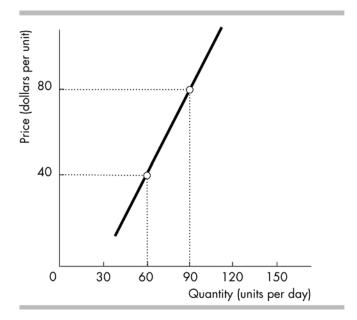
390) The slope of the line shown in the above figure is

A) 5/8.

B) -0.625.

C) -1 3/8.

D) -1 2/3.



391) The slope of the line shown in the above figure is

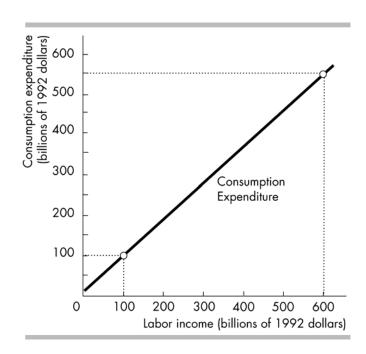
A) 3/4.

B) 2/3.

C) 13/4.

D) 1 1/3.

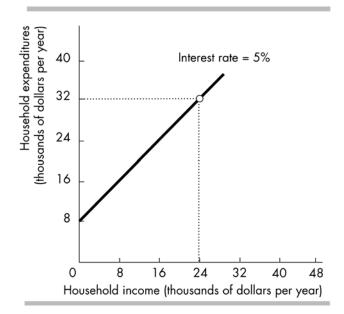
391) _____



392) In the above figure,

392) ____

- A) consumption expenditures are positively related to labor income.
- B) the slope of the function depicted is 0.9.
- C) consumption expenditures are a linear function of labor income.
- D) All of the above answers are correct.



A) 1.0.

B) -4.

C) -2.5.

D) -1.0.

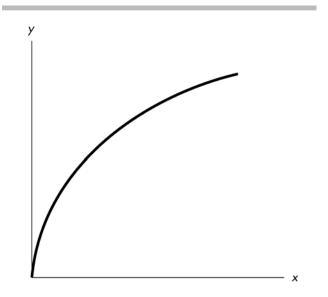
393)

394) On a graph, an upward-sloping curve that is flatter as you move away from the origin indicates a

394)

395)

- A) negative relationship with an increasing slope. B) positive relationship with an increasing slope.
- C) negative relationship with a decreasing slope.
- D) positive relationship with a decreasing slope.



395) In the above figure, the curve's slope is

- A) negative and is becoming less steep.
- C) positive and is becoming less steep.

B) negative and is becoming steeper.

D) positive and is becoming steeper.

- 396) If the price of apples is on the vertical axis and the quantity of apples demanded is on the horizontal axis, the slope between two points on the line describing the relationship between price and quantity is
- 396)

- A) price divided by quantity.
- B) the change in price multiplied by the change in quantity.
- C) the change in price divided by the change in quantity.
- D) the change in quantity divided by the change in price.
- 397) The formula for the slope across an arc is used to approximate the slope for

397) _____

A) a positive relationship only.

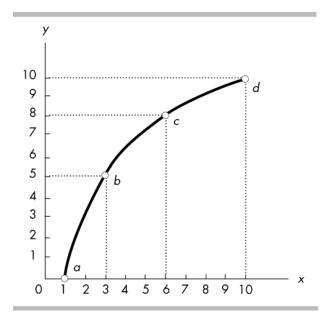
B) a curved line.

C) linear relationships only.

- D) a negative relationship only.
- 398) The slope of a curved line can be approximated by

398)

- A) the average of the variable measured along the y-axis divided by the average of the variable measured along the x-axis.
- B) the slope across an arc from one point on the curve to another point on the curve.
- C) the inverse of the straight-line method.
- D) the average of the variable measured along the x-axis divided by the average of the variable measured along the y-axis.



399) In the above figure, the slope across the arc between $\it c$ and $\it d$ is

399)

400)

401)

A) 2.

B) 1.

C) 4/3

- D) 1/2.
- 400) In the above figure, the slope across the arc between $\it b$ and $\it c$ is
 - A) 1/2.

B) 1.

C) 2/3.

- D) 2.
- 401) In the above figure, the slope across the arc between a and b is
 - A) 5/2.

B) 1.

- C) 3/2.
- D) 2/5.

402) In the above figure, the slope at point b is

- A) 5/2.
- C) greater than 5/2.

B) 1.

D) between 1 and 5/2.

403) In the above figure, the relationship between x and y is

403) _____

402)

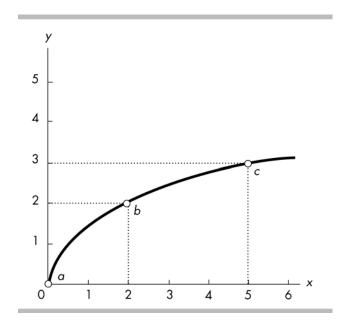
- A) negative, with slope increasing as x increases.
- B) positive, with slope decreasing as x increases.
- C) negative, with slope decreasing as *x* increases.
- D) positive, with slope increasing as *x* increases.

404) The slope in the above figure is

404) _____

- A) negative and increasing.
- C) positive and decreasing.

- B) negative and decreasing.
- D) positive and increasing.



405) In the above figure, using the slope across an arc, the slope of the curve between points b and c is

405)

- A) -1/3.
- B) 1/3.

C) -3.

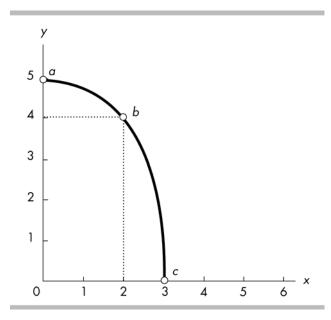
- D) 3.
- 406) In the above figure, using the slope across an arc, the slope of the curve between points $\it a$ and $\it c$ is

406)

- A) -5/3.
- B) 5/3.

C) 3/5.

D) -3/5.



407) In the above figure, using the slope across an arc, the slope of the curve between points a and b is

A) -2.

B) 1/2.

C) 2.

D) -1/2.

407)

408)

408) In the above figure, using the slope across an arc, the slope of the curve between points *a* and *c* is

A) -5/3.

B) 3/5.

C) 5/3.

D) -3/5.

у 18 16 14 12 10 5

6

409) In the above figure, the slope across the arc between $\it a$ and $\it b$ is

A) -4.

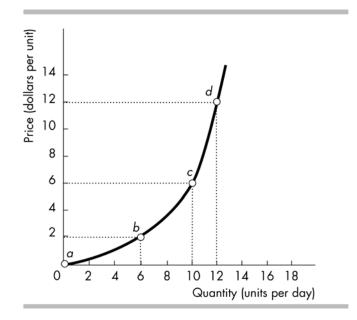
B) -1/4.

9 10

C) 1/4.

D) 1.

409)



B) negative.

D) undefined.

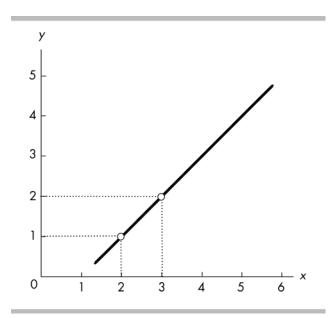
410) In the above f	igure, the slope across the arc be	etween b and d is		410)
A) 6/5.	B) 1/3.	C) 5/3.	D) 1/2.	
411) In the above f	igure, the slope at point b			411)
A) exceeds	2.	B) lies between	1/3 and 1.	
C) lies betw	veen 1 and 2.	D) equals 1.		
412) In the above f	igure, the slope across the arc be	etween c and d is		412)
A) 12/11.	B) 4.	C) 3.	D) 1/6.	
413) In the above f	igure, the slope across the arc be	etween a and b is		413)
A) 1.	B) 3/5.	C) 3.	D) 1/3.	
414) Along a curve	ed line, the slope at the maximur	n		414)
A) is zero.	_			
B) is less th	an zero.			
C) is greate	er than zero.			
D) may be	greater than, less than, or equal	to zero.		
415) Consider a di	agram in which the variable mea	asured on the y -axis rem	ains constant while the	415)
variable meas	sured on the x -axis increases. The	ne graph is of this relatior	nship is a	
A) perpend	licular line.	B) line that has	positive slope.	
C) line that	has a negative slope.	D) line with slop	pe equal to zero.	
416) The slope of a	negative relationship is			416)
A) constant	t as long as the relationship is no	onlinear.		

C) positive to the right of the maximum point and negative to the left.

417) A linear relationship

- A) always has a maximum.
- C) always has a constant slope.

- B) never has a constant slope.
- D) always slopes up to the right.



418) In the above figure, between x = 2 and x = 3, what is the slope of the line?

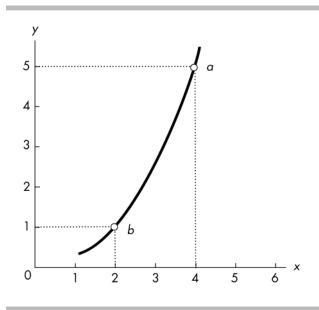
418)

A) 2

B) -1

C) 3

- D) 1
- 419) In the above figure, how does the slope of the line between x = 4 and x = 5 compare with the slope between x = 2 and x = 3?
 - A) The slope is the same.
 - B) The slope is greater between x = 2 and x = 3.
 - C) The slope is greater between x = 4 and x = 5.
 - D) The slope is not comparable.



allowed to change.

allowed to change.

D) None of the above answers are correct.

420)	The relationship between x	and y in the above fig	gure is		420)	
	A) positive with a decrease	sing slope.	B) positive with	h an increasing slope.	_	
	C) negative with an incre	· .		th a decreasing slope.		
421)	In the above figure, the slop	e across the arc betw	een points a and b eq	uals	421)	
	A) 2.	B) 5.	C) 1.	D) 4.	_	
422)	Ceteris paribus when graphir	ng a relationship refe	rs to		422)	
	A) changing the origin of	the graph.	B) holding cons	stant all but two variables.		
	C) rescaling the coordina	tes.	D) letting all the	e variables change at once.		
423)	In evaluating a relationship	between x and y , cet	eris paribus means oth	ner variables	423)	
	A) are not relevant to x as	nd y.	B) are not chan	ging while x and y change.		
	C) move in the same dire	ction as x and y .	D) move in opp	posite directions to x and y .		
424)	On a graph showing the rela	ationship between x	and <i>y,</i> the <i>ceteris parib</i>	us condition implies that	424)	
	A) the value of y is held of	onstant.				
	B) other variables not sho	own are held constan	t.			
	C) the value of x is held of	onstant.				
	D) no other variables are	related to x and y .				
425)	Assume that the quantity co	onsumed of pizza is d	lependent on three fa	ctors: the price of a pizza, the	425)	
	income of pizza purchasers,	and consumers' tast	e for pizza. When gra	phing the relationship		
	between the price of a pizza	and the quantity of	pizza consumed			
	A) the price of pizza and	quantity consumed o	of pizza are the only v	variables that are allowed to		
	change.					

B) consumers' taste for pizza and the income of pizza purchasers are the only variables that are

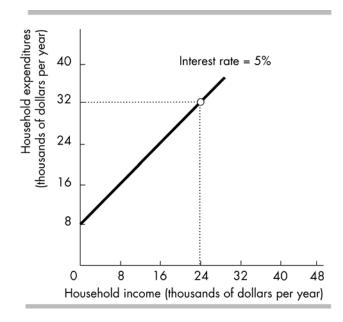
C) the price of a pizza and the income of pizza consumers are the only variables that are

- 426) To graph a relationship among several variables, we hold all but ______ variable(s) constant and 426) _____ use the _____ assumption.
 - A) three; marginal benefit

B) one; ceteris paribus

C) one; scarcity

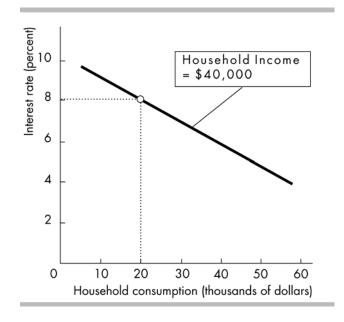
D) two; ceteris paribus



- 427) In the above figure, while moving along the line showing the relationship between household income and expenditure,
- 427)

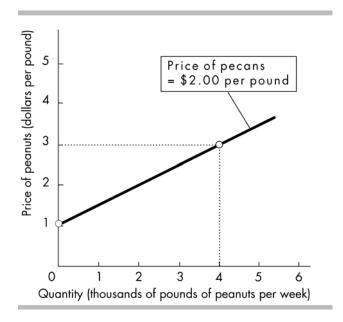
- A) household income is held constant.
- B) the interest rate is held constant.
- C) household expenditures are held constant.
- D) no variable is held constant.
- 428) In the above figure, if the interest rate is negatively related to household expenditures for any given level of household income, an increase in the interest rate will
- 428)

- A) make the line negatively sloped.
- B) shift the line vertically downward.
- C) cause no change in the line's position.
- D) shift the line vertically upward.



429) The slope of the line in the above figure is				
A) direct.	B) positive.	C) negative.	D) independent.	
430) In the above figure, consumption is	when the interest rate is 8 p	percent and household inc	come is \$40,000, household	430)
A) \$0.	B) \$35.000.	C) \$20,000.	D) \$60,000.	
431) The relationship in	the above figure indicates t	hat		431)
A) a decrease in h	ousehold consumption lea	ds to a decrease in interes	t rates.	
B) a decrease in h	ousehold income will lead	household consumption t	to increase.	

- C) a decrease in the interest rate leads to a decrease in household income. D) none of the above 432) Household consumption depends on both income and interest rates. In the above figure 432)
- A) household consumption is held constant. B) interest rates are held constant. C) no variable is held constant. D) household income is held constant.
- 433) In the above figure, if household consumption is positively related to household income, then an 433) increase in household income will
- A) cause a movement along the line. B) shift the line leftward. C) make the line positively sloped. D) shift the line rightward.



- 434) The above figure shows how many pounds of peanuts farmers are willing to sell at different prices per pound of peanuts. If the price of a pound of peanuts is \$1 and the price of a pound of pecans is \$2, peanut farmers are willing to sell
 - A) no peanuts.

B) 2000 pounds of peanuts.

C) 1000 pounds of peanuts.

- D) 4000 pounds of peanuts.
- 435) In the above figure, while drawing the line showing the relationship between the price of a pound of peanuts and the quantity sold, the
- 435) _____

434)

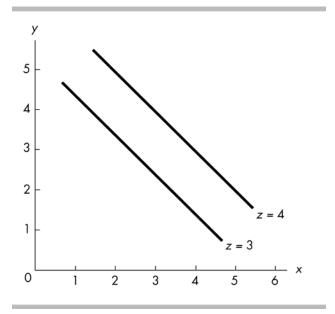
- A) quantity of peanuts that farmers supply is constant.
- B) price of a pound of pecans is held constant.
- C) price of a pound of peanuts is held constant.
- D) Both answers A and B are true.
- 436) In the figure above, suppose the price of a pound of pecans is negatively related to the quantity of peanuts that farmers are willing to supply. If the price of pecans increases
- 436) _____

A) the curve will be unaffected.

B) there is a movement along the curve.

C) the curve will shift leftward.

D) the curve will shift rightward.



437) In the above figure, x is

437) _

- A) positively related to y and negatively related to z.
- B) negatively related to y and positively related to z.
- C) positively related to both y and z.
- D) negatively related to both y and z.
- 438) In the figure above, *ceteris paribus*, an increase in x is associated with

438)

A) a decrease in z.

B) an increase in y.

C) a decrease in y.

- D) None of the above answers is correct.
- 439) In the figure above, an increase in z leads to a

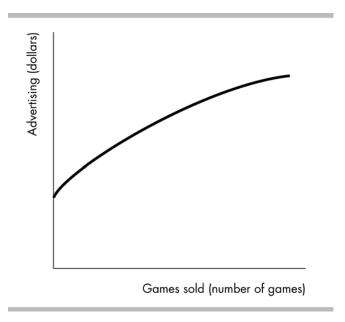
439)

- A) rightward shift of the line showing the relationship between *x* and *y*.
- B) leftward shift of the line showing the relationship between *x* and *y*. C) movement down along one of the lines showing the relationship between x and y.
- D) movement up along one of the lines showing the relationship between *x* and *y*.

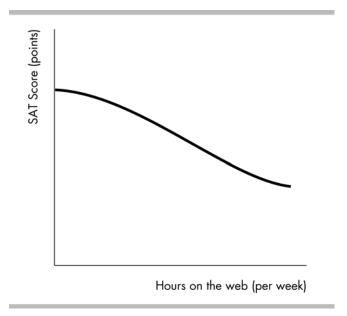
ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 440) Why do economists use graphs?
- 441) What are the two different types of relationships that variables can have? Explain each. What do these relationships look like when they are graphed?
- 442) What is the difference between a positive and a negative relationship?
- 443) A graph of two variables is a vertical line. What is the interpretation of this result?
- 444) What does the slope of a straight line equal? How is the slope of a curved line calculated at a point on the curve?

445) "It is impossible to represent a three variable relationship in a two-dimensional graph." Is this statement true or false? Explain your answer.

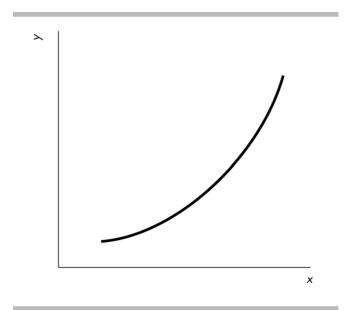


446) The figure above shows how the sales of the video game "Tomb Raider—Lara Retires" change when the advertising spent on the game changes. Is the relationship between advertising and the number of games sold positive, negative, or neither? Explain your answer.



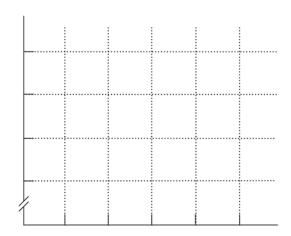
447) The figure above shows how the relationship between the number of hours per week a high school student spends on the web and the student's SAT score. Is the relationship between hours on the web and the SAT score positive, negative, neither? Explain your answer.

448) A graph has a point that is either a maximum or a minimum. To the left of the point, the slope of relationship is positive. To the right of the point, the slope is negative. Is the point a maximum point or a minimum point? Be sure to draw a figure that supports your answer.



- 449) In the figure above, what can you deduce about the slope of the curve?
- 450) If two points on a line are x = 2, y = 5 and x = 7, y = 10, what is the slope of this line?

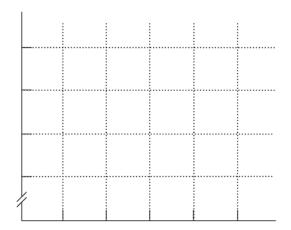
Katie's income	Katie's purchases
(dollars per year)	(books per year)
50,000	14
70,000	16
90,000	18
110,000	20



451) The table above shows how the number of books Katie buys each year depends on her income.

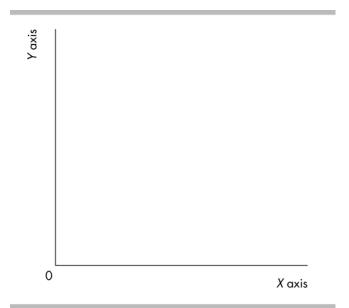
- a) What kind of relationship exists between Katie's income and the number of books she purchases?
- b) Plot the relationship between Katie's income and the number of books she purchases in the above figure. Measure income along the vertical axis and the number of books along the horizontal axis. Be sure to label the axes.
- c) What is the slope of the relationship between \$50,000 and \$70,000 of income?
- d) What is the slope of the relationship between \$90,000 and \$110,000 of income?
- e) Comment on the similarity or dissimilarity of your answers to parts (c) and (d).

X	Y
2	20
4	16
6	12
8	8

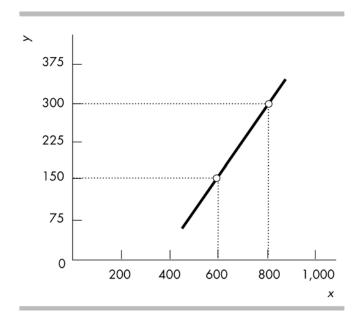


452) Graph the data in the table above in the figure. Label the axes.

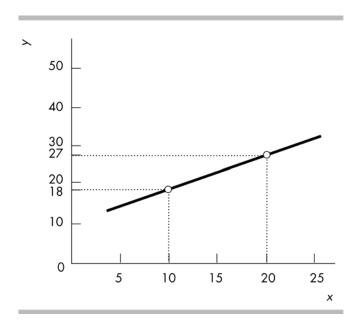
- a) Is the relationship between *X* and *Y* positive or negative?
- b) What is the slope when X = 4?
- c) What is the slope when X = 8?



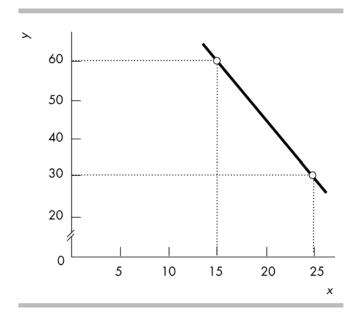
453) In the above diagram, draw a straight line with a slope of zero.



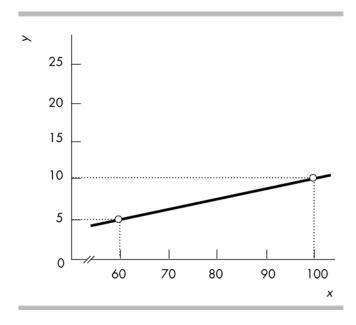
454) What does the slope of the line shown in the above figure equal?



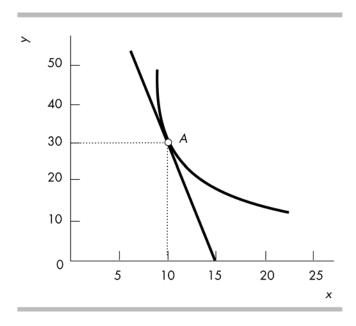
455) What does the slope of the line shown in the above figure equal?



456) What does the slope of the line shown in the above figure equal?

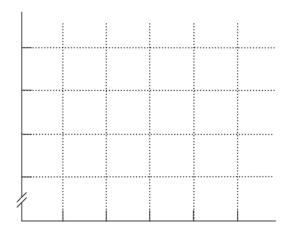


457) What does the slope of the line shown in the above figure equal?



458) What does the slope of the curved line at point A shown in the above figure equal?

Hours studies (per week)	SAT scores
2	900
4	1000
6	1050
8	1075
10	1090



- 459) Jamie is preparing to take his SAT tests. The table above shows how Jamie's score depends on the number of hours a week Jamie studies.
 - a) Plot the relationship in the figure, putting the hours studied on the horizontal axis.
 - b) Is the relationship you plotted positive or negative?
 - c) What happens to the slope of the relationship as hours studied increase?
 - d) Suppose Jamie can enroll in an SAT prep course and, by so doing, for every possible number of hours he studies, his score will be 100 points higher. Plot the new relationship between the number of hours studied and Jamie's SAT score in the figure.
 - e) How many variables are involved in the figure you just completed?

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

460) The vertical axis of a graph shows only positive values.
461) A scatter diagram plots the value of one economic variable against time.
461) ______
462) A cross-section graph can show how economic variables for different groups of people vary over time.
462) If the *x*-axis variable increases while the *y*-axis variable decreases, the variables *x* and *y* are negatively related.
463) A graph cannot be used to show that two variables are unrelated.
464) ______

465) When graphed, variables that are unrelated are shown by either a horizontal or a vertical line.	465)
466) The slope of a line is the change in the y -axis variable divided by the change in the x -axis variable.	466)
467) The slope of a straight line increases as the numbers on the x -axis become larger.	467)
468) To calculate the slope of a curved line, you can calculate the slope at a point on the curve or across an arc of the curve.	468)
469) If the change in the y -axis variable is 4 and the change in the x -axis variable is 2, the slope of this line is $1/2$.	469)
470) If the change in the y -axis variable is 6 and the change in the x -axis variable is 5, the slope of this line is $6/5$.	470)
471) To graph a relationship that involves more than two variables, we use the <i>ceteris paribus</i> assumption.	471)
472) <i>Ceteris paribus</i> refers to the idea that if more than two variables are graphed, only one variable must be held constant.	472)

Testname: UNTITLED1

- 1) B Topic: Scarcity
- 2) A
- Topic: Scarcity
- 3) D Topic: Scarcity
- 4) B Topic: Scarcity
- 5) D Topic: Scarcity
- 6) C
- Topic: Scarcity
 7) B
 Topic: Scarcity
- 8) D Topic: Scarcity
- 9) D Topic: Scarcity
- 10) D Topic: Scarcity
- 11) C Topic: Scarcity
- 12) D Topic: Scarcity
- 13) B
 Topic: Scarcity
- 14) D
 Topic: Scarcity
- 15) B
 Topic: Scarcity
- 16) C Topic: Incentive
- 17) C Topic: Incentive
- 18) D
 Topic: Definition of Economics
- 19) D
 Topic: Definition of Economics
- 20) CTopic: Definition of Economics21) B
- Topic: Definition of Economics
 22) D
- Topic: Microeconomics and Macroeconomics
- 23) D

 Topic: Microeconomics and Macroeconomics

Testname: UNTITLED1

24) C

Topic: Microeconomics and Macroeconomics

25) C

Topic: Microeconomics and Macroeconomics

26) C

Topic: Microeconomics and Macroeconomics

27) A

Topic: Microeconomics and Macroeconomics

28) D

Topic: Microeconomics and Macroeconomics

29) D

Topic: Microeconomics and Macroeconomics

30) B

Topic: Microeconomics and Macroeconomics

31) A

Topic: Microeconomics and Macroeconomics

32) C

Topic: Microeconomics and Macroeconomics

33) B

Topic: Microeconomics and Macroeconomics

34) C

Topic: Microeconomics and Macroeconomics

35) B

Topic: Microeconomics and Macroeconomics

36) C

Topic: Microeconomics and Macroeconomics

37) I

Topic: Microeconomics and Macroeconomics

38) A

Topic: Microeconomics and Macroeconomics

39) D

Topic: Microeconomics and Macroeconomics

40) A

Topic: Microeconomics and Macroeconomics

41) D

Topic: Microeconomics and Macroeconomics

42) C

Topic: Microeconomics and Macroeconomics

43) C

Topic: Study Guide Question, Definition of Economics

44) A

Topic: Study Guide Question, Macroeconomics

45) C

Topic: MyEconLab Questions

46) D

Topic: MyEconLab Questions

Testname: UNTITLED1

47) D

Topic: MyEconLab Questions

48) C

Topic: What Goods and Services Are Produced?

49) B

Topic: What Goods and Services Are Produced?

50) A

Topic: What Goods and Services Are Produced?

51) C

Topic: What Goods and Services Are Produced?

52) D

Topic: What Goods and Services Are Produced?

53) C

Topic: What Goods and Services Are Produced?

54) C

Topic: What Goods and Services Are Produced?

55) B

Topic: Trends in Production

56) B

Topic: Trends in Production

57) C

Topic: Trends in Production

58) B

Topic: How Are Goods and Services Produced?

59) E

Topic: How Are Goods and Services Produced?

60) B

Topic: How Are Goods Produced?

61) C

Topic: How Are Goods and Services Produced?

62) C

Topic: For Whom are Goods and Services Produced?

63) D

Topic: Factors of Production

64) D

Topic: Factors of Production

65) B

Topic: Factors of Production

66) A

Topic: Factors of Production

67) D

Topic: Factors of Production

68) B

Topic: Factors of Production

69) D

Topic: Factors of Production

Testname: UNTITLED1

70) D

Topic: Factors of Production

71) A

Topic: Factors of Production

72) D

Topic: Factors of Production

73) B

Topic: Factors of Production

74) D

Topic: Factors of Production

75) C

Topic: Capital Stock

76) A

Topic: Land

77) C

Topic: Land

78) B

Topic: Land

79) D

Topic: Land

80) C

Topic: Labor

81) B

Topic: Human Capital

82) D

Topic: Human Capital

83) A

Topic: Human Capital

84) D

Topic: Human Capital

85) A

Topic: Human Capital

86) B

Topic: Capital

87) D

Topic: Entrepreneurship

88) C

Topic: Entrepreneurship

89) B

Topic: Entrepreneurship

90) D

Topic: Entrepreneurship

91) D

Topic: For Whom are Goods and Services Produced?

92) D

Topic: For Whom are Goods and Services Produced?

Testname: UNTITLED1

93) B Topic: For Whom are Goods and Services Produced? 94) C Topic: Social Interest 95) D Topic: Study Guide Question, Two Big Economic Questions Topic: Tradeoffs 97) B Topic: Tradeoff and Opportunity Cost 98) C Topic: Opportunity Cost 99) A Topic: Opportunity Cost 100) C Topic: Opportunity Cost 101) D Topic: Opportunity Cost 102) D Topic: Opportunity Cost 103) B Topic: Opportunity Cost 104) B Topic: Opportunity Cost 105) A Topic: Opportunity Cost 106) C Topic: Opportunity Cost 107) A Topic: Opportunity Cost 108) B Topic: Opportunity Cost 109) C Topic: Opportunity Cost 110) B Topic: Opportunity Cost 111) A Topic: Opportunity Cost 112) B Topic: Opportunity Cost 113) C Topic: Opportunity Cost 114) A Topic: Opportunity Cost 115) C

Topic: Opportunity Cost

Testname: UNTITLED1

116) D

Topic: Opportunity Cost

117) A

Topic: Opportunity Cost

118) A

Topic: Opportunity Cost

119) B

Topic: Opportunity Cost

120) D

Topic: Opportunity Cost

121) A

Topic: Opportunity Cost

122) C

Topic: Opportunity Cost

123) C

Topic: Opportunity Cost

124) D

Topic: Choices at the Margin

125) D

Topic: Marginal Benefit/Marginal Cost

126) A

Topic: Marginal Benefit

127) B

Topic: Marginal Benefit

128) B

Topic: Marginal Benefit

129) B

Topic: Marginal Benefit

130) C

Topic: Marginal Benefit

131) D

Topic: Marginal Benefit

132) D

Topic: Marginal Benefit

133) C

Topic: Marginal Cost

134) B

Topic: Marginal Cost

135) C

Topic: Marginal Cost

136) C

Topic: Marginal Analysis

137) D

Topic: Marginal Cost

138) D

Topic: Marginal Benefit/Marginal Cost

Testname: UNTITLED1

139) A
Topic: Marginal Benefit/Marginal Cost

140) A

Topic: Incentives, Marginal Cost and Marginal Benefit

141) B

Topic: Incentives, Marginal Cost and Marginal Benefit

142) B

Topic: Incentives, Marginal Cost and Marginal Benefit

143) C

Topic: Study Guide Question, Opportunity Cost

144) A

Topic: Study Guide Question, Opportunity Cost

145) A

Topic: MyEconLab Questions

146) B

Topic: MyEconLab Questions

147) C

Topic: MyEconLab Questions

148) B

Topic: Positive and Normative

149) A

Topic: Positive and Normative

150) D

Topic: Positive and Normative

151) D

Topic: Positive and Normative

152) A

Topic: Positive and Normative

153) D

Topic: Positive and Normative

154) B

Topic: Positive and Normative

155) B

Topic: Positive and Normative

156) B

Topic: Positive and Normative

157) C

Topic: Positive and Normative

158) D

Topic: Positive and Normative

159) D

Topic: Positive and Normative

160) B

Topic: Positive and Normative

161) B

Topic: Positive and Normative

Testname: UNTITLED1

1	62)	В

Topic: Positive and Normative

163) C

Topic: Positive and Normative

164) C

Topic: Positive and Normative

165) C

Topic: Positive and Normative

166) A

Topic: Positive and Normative

167) D

Topic: Positive and Normative

168) B

Topic: Positive and Normative

169) D

Topic: Positive and Normative

170) A

Topic: Positive and Normative

171) A

Topic: Positive and Normative

172) D

Topic: Positive and Normative

173) B

Topic: Positive and Normative

174) A

Topic: Positive and Normative

175) D

Topic: Positive and Normative

176) C

Topic: Positive and Normative

177) B

Topic: Positive and Normative

178) C

Topic: Positive and Normative

179) A

Topic: Positive and Normative

180) D

Topic: Positive and Normative

181) C

Topic: Positive and Normative

182) B

Topic: Positive and Normative

183) B

Topic: Positive and Normative

184) B

Topic: Positive and Normative

Testname: UNTITLED1

185) A

Topic: Positive and Normative

186) D

Topic: Model Building

187) A

Topic: Model Building

188) C

Topic: Models

189) A

Topic: Study Guide Question, Positive and Normative

190) B

Topic: Study Guide Question, Positive and Normative

191) C

Topic: Study Guide Question, Economic Model

192) B

Topic: MyEconLab Questions

193) C

Topic: Scarcity

194) D

Topic: Microeconomics and Macroeconomics

195) A

Topic: Microeconomics and Macroeconomics

196) B

Topic: Microeconomics

197) C

Topic: Factors of Production

198) B

Topic: Human Capital

199) D

Topic: Positive and Normative

200) D

Topic: Positive and Normative

201) C

Topic: Positive and Normative

202) B

Topic: Positive and Normative

- 203) Scarcity occurs whenever people's wants exceed the ability of the available resources to meet these wants. Because people's wants are effectively infinite—it is always possible to imagine more good things to want to have—wants will always exceed what can be produced with the available resources, and so scarcity will always be present.

 Topic: Scarcity
- 204) A person faces scarcity whenever his or her wants exceed what he or she can obtain using his or her resources. Because the person cannot fulfill all of his or her wants, the person is forced to choose which wants will be satisfied and which wants will remain unsatisfied. The same results hold true for a society. All societies face scarcity because people's wants are essentially infinite, so that the factors of production available are not sufficient to fulfill everyone's wants. Because of this fact, societies must make choices about which (and whose) wants will be satisfied and which (and whose) wants will remain unsatisfied.

Topic: Scarcity

Testname: UNTITLED1

205) A person faces scarcity whenever his or her wants exceed what he or she can obtain using his or her resources. Even very rich people want things that they cannot have. An older rich person, for instance, might want to have all of his or her youthful energy, but medical science cannot (yet) provide this service. Alternatively, another rich person might enjoy life so much that he or she wants 25 hours in a day in order to have more time for more enjoyment. But, such a want is impossible. By way of another, perhaps more realistic example, Malcolm Forbes was the founder of *Forbes* magazine and was very rich. However, he did not win every piece of art that he bid upon at auctions. Even though Mr. Forbes was very rich, he still passed on some art when the price got so high that he thought given his resources, the price exceeded what he was willing to pay. Mr. Forbes wanted the art, but he was not willing to bid higher in order to win it. Mr. Forbes faced scarcity.

Topic: Scarcity

- 206) Scarcity exists when people's wants exceed their ability to satisfy the wants. People's wants are literally infinite, so just as a poor person can want more, so too can a richer person. Therefore both rich and poor experience scarcity.

 Topic: Scarcity
- 207) Scarcity exists when availability is less than people want. Poverty exists when availability is less than people need. Everyone suffers scarcity; only an unfortunate minority suffers poverty.

 Topic: Scarcity
- 208) Economics is the social science that studies the choices made by individuals, businesses, government, and entire societies as they cope with scarcity. It has two branches, microeconomics and macroeconomics. Microeconomics is the study of the choices made by individuals and businesses, the way they interact, and the influence that governments exert on these choices. Macroeconomics is the study of the aggregate (total) effects on the national economy and the global economy of the choices that individuals, businesses, and governments make.

 Topic: Definition of Economics
- 209) Microeconomics studies the decisions of smaller economic actors, such as individual consumers or individual firms, and how the government can affect these decisions, say through how it regulates an industry. Macroeconomics studies the aggregate, or economy–wide, consequences of the decisions made by individuals and firms. Macroeconomics also studies the aggregate effects of government policies, such as the Federal Reserve's decisions to

Topic: Microeconomics and Macroeconomics

raise or lower interest rates.

210) Essentially microeconomics studies individual units within the economy, such as the choices made by individual consumers or individual firms. Macroeconomics studies the overall or aggregate economy. Microeconomics examines the factors that affect employment at an individual firm. Macroeconomics examines the factors that affect economy-wide unemployment.

Topic: Microeconomics and Macroeconomics

211) The answer is partially correct. Microeconomics is the study of the choices that individuals and businesses make, the way these choices interact in markets, and the influence of the government. But the performance of the national economy is the subject of macroeconomics, not microeconomics.

Topic: Microeconomics and Macroeconomics

- 212) False. Population can measure the quantity of a nation's labor resource, but the population numbers don't tell us anything about skills that this labor force obtained from education, on–the–job training, and work experience, which are called human capital. Thus, the population numbers in the statement only tell us that China is likely to have more labor than the United States, but it does not necessarily mean that it also has more human capital.

 Topic: Human Capital
- 213) Entrepreneurship is the resource (the people) that runs businesses. Entrepreneurs organize the other resources, land, labor, and capital. It is a factor of production because people with the desire and talent to successfully organize a business are needed to run businesses.

Topic: Entrepreneurship

Testname: UNTITLED1

- 214) You should disagree. The recent corporate scandals only show that self interest *might* contradict social interest. But they don't prove that this is *necessarily* the case as we can find many real-world examples of how people guided by self-interest promote society's well-being. In fact, under the market system the whole economy operates through the decisions made by self-interested individuals. And countries such as the United States have proven to be more successful in promoting social interest than were centrally planned, or communist, economies where people's self interest was suppressed and all important economic decisions were made by government.

 Topic: Self-Interest and Social Interest
- 215) A tradeoff occurs when one thing must be given up to get another. Tradeoffs are pervasive; at the personal level, students tradeoff time spent studying for time they otherwise could have spent socializing.
 Topic: Tradeoffs
- 216) Opportunity cost is the highest-valued alternative given up when selecting an action. For instance, the opportunity cost of studying an hour is whatever the highest-valued alternative would have been for the hour spent studying.

 Topic: Opportunity Cost
- 217) Your friend's analysis is incorrect. The opportunity cost of an action is the highest-valued alternative forgone, not *all* alternatives forgone. Kiki's opportunity cost of studying for her exam is either the tennis or the movie, whichever she would have done had she not studied.

Topic: Opportunity Cost

- 218) Your first roommate's comment is incorrect. The opportunity cost of preparing dinner at home is whatever is the highest-valued alternative forgone, which, given your choice boiled down to staying home or going out, is going out to eat. Hence the opportunity cost of fixing dinner at home is going out to eat.

 Topic: Opportunity Cost
- 219) Marginal cost is the opportunity cost of an increase in an activity. Marginal benefit is the benefit of an increase in an activity.

Topic: Marginal Benefit and Marginal Cost

- 220) Policy makers know that people making choices respond to incentives. Instead of throwing away bottles and cans, people will now bring the used bottles and cans to the designated areas for recycling in order to receive their payment. Thus policy makers have taken advantage of people's decision making by increasing the marginal benefit of returning bottles in order to reduce litter and clean the environment.
 - Topic: Incentives, Marginal Cost and Marginal Benefit
- 221) The government raises the tax on cigarettes to discourage smoking. With a higher tax the price of cigarettes rises. The opportunity cost of smoking increases, which gives people incentive to cut their consumption of cigarettes.

 Topic: Incentives, Marginal Cost and Marginal Benefit
- 222) Positive statements tell what is and normative statements tell what ought to be. Positive statements can be tested to determine if they are correct or not, while normative statements use value judgments and so cannot be tested. For example, two economists might agree on the positive assertion that if the government spent its funds purchasing pharmaceutical drugs for poor older Americans rather than poor children, then poor older Americans would use more drugs and poor children would use fewer. But they might disagree on the normative conclusion of whether the government should pursue this policy. One economist might argue "It is not fair to have senior citizens suffer because they cannot afford medicine" and the other economist might argue "It is not fair to have children suffer because their parents cannot afford medicine."

Topic: Positive and Normative

223) False. The difference between positive and normative statements is that a positive statement is about what *is*, while a normative statement is about what *ought to be*. A positive statement can be tested against the facts and may be proved to be right or wrong, whereas a normative statement depends on values and cannot be tested.

Topic: Positive and Normative

Testname: UNTITLED1

- 224) Positive statements are statements that describe how the world is. Positive statements can be tested and so, ultimately, any disagreements about positive statements should be resolved. The statement that "Raising the minimum wage creates unemployment" is a positive statement and, on the basis of repeated testing, most economists agree that it is a correct positive statement. Normative statements, however, are statements that describe how the world ought to be. Normative statements depend on people's values and cannot be tested. So one economist might argue that raising the minimum wage is a good policy because this economist thinks that, although it is unfortunate that some people lose their jobs, the fact that others retain their jobs and their wages rise more than outweighs the harm created by the unemployment. Another economist might strongly differ because the second economist thinks that the harm inflicted on people who lose their jobs more than outweighs any good from some workers being paid more. This difference of opinion can last indefinitely because there is no way to test the two economists' beliefs to determine which is correct. Topic: Positive and Normative
- 225) The statement is a positive statement because it does not depend on a value judgment. Instead, it is a statement that tries to describe "what is" and hence is testable. Of course, in order to test the assertion, it would be necessary to go to Mars to ascertain if there is life present. While it is difficult (!) at present to actually carry out the test, nonetheless the statement is testable and hence is a positive statement.

Topic: Positive and Normative

226) The statement is a positive statement because it does not depend on a value judgment. Instead, it is a statement that tries to describe "what is" and hence is testable. Now, it is indeed the case that Hillary Clinton was not elected president in 2008, so when we test the statement we discover that it is incorrect. But, whether the statement is correct or not has *no* bearing on whether the statement is positive or normative. Thus, the statement "Hillary Clinton was elected President in 2008" is a positive, albeit incorrect, statement.

Topic: Positive and Normative

227) A normative statement is a statement about what ought to be. It is a value judgment or opinion and so cannot be proven true or false. An example of a normative statement is "Students should attend school year round to receive a better education."

Topic: Positive and Normative

228) The statement is normative. The statement is a normative statement because it depends on a value judgment, namely that the government should protect the American car industry from competition.

Topic: Positive and Normative

229) Marginal benefit is the benefit that arises from an increase in an activity. Your marginal benefit is the 0.3 increase in your grade. It's not the 3.8 grade because you already have the benefit from studying for four nights a week and should not count this benefit as resulting from the decision you are now making.

Topic: Marginal Benefit

230) Marginal benefit is the benefit that arises from an increase in an activity. Jerry's marginal benefit is the 0.4 increase in his grade. Marginal cost is the opportunity cost of an increase in an activity. Jerry's marginal cost is a night spent with his friends that he gives up. Jerry decides to stud an extra night because he values the marginal benefit from it (the 0.4 increase in his grade) more highly than its marginal cost (a night spent with his friends).

Topic: Marginal Benefit and Marginal Cost

231) TRUE

Topic: Scarcity

232) FALSE

Topic: Scarcity

233) FALSE

Topic: Microeconomics

234) TRUE

Topic: Macroeconomics

235) FALSE

Topic: Human Capital

Testname: UNTITLED1

236) FALSE

Topic: Labor

237) TRUE

Topic: Production Trends

238) TRUE

Topic: Opportunity Cost

- 239) a) You explicitly pay the cost of tuition and textbooks (\$1,400) and the cost of housing (\$500), so your total explicit costs are \$1,900.
 - b) Your opportunity cost is what your give up to go to summer school. You forego a fulltime job, at which you would earn \$8,000, in exchange for a part-time job, where you earn \$3,000, which means you give up \$5,000. Although you don't pay this money explicitly, you lose the opportunity to earn it and so it's an opportunity cost of attending summer school.
 - c) First, your opportunity cost includes the cost that you pay explicitly (\$1,900), which you have to pay only if you go to school. If you decide not to go to school, you can use this money to buy something else—an opportunity you are giving up. Second, as explained in the previous part, you are also giving up \$5,000, although not paying this money explicitly. So your full opportunity cost of going to school is \$1,900 + \$5,000 = \$6,900.

Topic: Opportunity Cost

- 240) a) Jane explicitly pays the cost of tuition and textbooks (\$1,700) and the cost of housing (\$600), so her total explicit costs are \$2,300.
 - b) Jane's opportunity cost is what she gives up (her best alternative forgone) to go to summer school. In this case she foregoes 40 hours per week of her free time, which she values more highly then the income from the best job she could find. To place a dollar value on this time, notice that the value that she places on this time is the amount of money she is willing to accept to give it up: \$750 per week. So for the eight weeks, her free time has a value of \$750 \times 8 = \$6,000. Although she does not pay \$6,000 explicitly, she gives up this value of her free time and hence it's an opportunity cost to her
 - c) Jane's total opportunity cost includes the cost that she pays explicitly, \$2,300, which she has to pay only if she goes to school. Also, as explained in the previous part, Jane is giving up the value of her free time, \$6,000. Thus, her full opportunity cost of going to school is \$2,300 + \$6,000 = \$8,300.
 - d) Jane's marginal benefit of going to summer school is the possibility of getting her degree faster. For instance, if the summer school allows her to graduate one semester earlier, she can start to work and earn income earlier. The additional income and work experience that she gets because of her earlier graduation is what she gains if she decides to go to school in the summer.
 - e) Jane decides to go to school in the summer if her marginal benefit from this decision, the value of extra income and work experience that she gets if she graduates earlier, is greater than the marginal cost of her summer school, \$8,300.

Topic: Marginal Analysis

- 241) a) Canon's marginal cost is the additional investment needed to finish the project, which is 7 billion yen.
 - b) Canon's marginal benefit is the benefit that arises from the new product, the additional revenue from sales, which in the changed situation is expected to be 30 billion yen.
 - c) The principle of choosing at the margin will help. According to this principle, the amount of money already spent is irrelevant to the decision you are making now. That is, you should only consider the marginal costs and marginal benefits that will result from the decision in question. Now, if Canon goes ahead, finishes the project and introduces the new camera, it will cost them additional 7 billion yen, but they will gain additional sales of 30 billion yen. The marginal benefit of introducing the new product exceeds the marginal cost, which means the company should invest 7 billion yen to finish development and introduce the new product. Notice also that if Canon abandons the project, there will be no additional money costs, but the opportunity cost will be the additional sales (30 million yen) that the company is potentially losing. Thus, the concept of opportunity cost also helps to clarify the situation.

Topic: Marginal Analysis

- 242) a) The university's marginal cost is \$170. These are the extra cost of electricity (\$100) and janitorial services (\$70) that the university will only pay if you rent the Center. The costs of building the Center, insurance, and regular maintenance costs are not extra costs incurred because you rent the Center. The university has already paid for building it and pays the cost of insurance and regular maintenance no matter whether you rent the Center or not. Therefore these costs are not marginal costs of renting the center to you.
 - b) The university's marginal benefit is the amount of rent that you pay.
 - c) You should start negotiating from \$171. Because the university's marginal cost is \$170 and the amount you pay is its marginal benefit, the university will be better off if it accepts any amount greater than \$170. If the manager is still not convinced, tell the manager that, since no one else wants to rent the Center on that day, declining your offer is not cost free. The opportunity cost of not accepting it will be the difference between the offered rent and \$170. In practice, of course, there are transaction costs, such as the time spent by both parties to negotiate and sign the agreement, and accepting your offer will cost the manager some extra time and organizational effort. Also, as you learnt in this chapter, people are guided by self interest when they make their decisions and the manager's self interest is not necessarily the same as the university's interest. On the other hand, you might want to support your university. Therefore the amount of rent you will agree upon is likely to be higher than \$171.

Topic: Marginal Analysis

```
243) A
```

Topic: Graphing Data

244) C

Topic: Graphing Data

245) B

Topic: Graphing Data

246) B

Topic: Graphing Data

247) D

Topic: Graphing Data

248) A

Topic: Graphing Data

249) D

Topic: Graphing Data

250) D

Topic: Graphing Data

251) A

Topic: Graphing Data

252) A

Topic: Graphing Data

253) A

Topic: Graphing Data

254) B

Topic: Graphing Data

255) D

Topic: Graphing Data

256) D

Topic: Scatter Diagrams

257) B

Topic: Scatter Diagrams

258) A

Topic: Scatter Diagrams

281) B

Answer Key Testname: UNTITLED1

259) D
Topic: Scatter Diagrams
260) C
Topic: Scatter Diagrams
261) A
Topic: Scatter Diagrams
262) B
Topic: Scatter Diagrams
263) D
Topic: Breaks in the Axes
264) C
Topic: Breaks in the Axes
265) B
Topic: Correlation and Causation
266) C
Topic: Study Guide Question, Scatter Diagrams
267) D
Topic: Study Guide Question, Scatter Diagrams
268) B
Topic: Variables That Move in the Same Direction
269) B
Topic: Variables That Move in the Same Direction
270) B
Topic: Variables That Move in the Same Direction
271) D
Topic: Variables That Move in the Same Direction
272) D
Topic: Variables That Move in the Same Direction
273) B
Topic: Variables That Move in the Same Direction
274) D
Topic: Variables That Move in the Same Direction
275) D
Topic: Variables That Move in the Same Direction
276) D
Topic: Variables That Move in the Same Direction
277) A
Topic: Variables That Move in the Same Direction
278) A
Topic: Variables That Move in the Same Direction
279) D
Topic: Variables That Move in the Same Direction
280) B
Topic: Variables That Move in the Same Direction

Topic: Variables That Move in the Same Direction

Answer Key Testname: UNTITLED1

282)	В							
	Topic:	Variables	That	Move i	n the	Same	Directi	on
283)								
	•	Variables	That	Move i	n the	Same	Directi	on
284)		37 1 - 1 - 1	The second	N ((1	C	D:	
205)	-	Variables	Inat	Move 1	n the	Same	Directi	on.
285)		Variables	That	Move i	n the	Same	Directi	on
286)	•	variables	mat	WIOVEI	ii tile	Janie	Directi	OH
200)		Variables	That	Move i	n the	Same	Directi	on
287)	-							
,		Variables	That	Move i	n the	Same	Directi	on
288)	D							
	Topic:	Variables	That	Move i	n the	Same	Directi	on
289)								
	-	Variables	That	Move i	n the	Same	Directi	on
290)		Variables	That	Marra i	n tha	Cama	Dinashi	~~
291)	•	Variables	mat	wove i	n me	Same	Directi	OH
291)		Variables	That	Move i	n Opr	oosite	Directi	on
292)	-				F I			
,		Variables	That	Move i	n Opp	osite	Directi	on
293)	В							
	Topic:	Variables	That	Move i	n Opp	osite	Directi	on
294)								
	-	Variables	That	Move i	n Opp	oosite	Directi	on
295)		17: - l-1	Ther	N	0		Dinasti	
20()	-	Variables	inat	Move 1	n Opp	oosite	Directi	.on
296)		Variables	That	Move i	n Opr	oosite	Directi	on
297)	-	, arraeres		1,10,01	opi	00110	211000	
,		Variables	That	Move i	n Opp	osite	Directi	on
298)	D							
	Topic:	Variables	That	Move i	n Opp	osite	Directi	on
299)								
	•	Variables	That	Move i	n Opp	osite	Directi	on
300)		** • 11	ari e		0	٠.	D:	
201)	•	Variables	Inat.	Move 1	n Opp	oosite	Directi	on
301)		Variables	That	Move i	n Opr	nosite	Directi	on
302)	-	, unables	TIME.		OPI	Joine	2110011	
JU2)		Variables	That	Move i	n Opr	oosite	Directi	on
303)	•							
,		Variables	That	Move i	n Opr	osite	Directi	on

Topic: Variables That Move in Opposite Directions

327) D

Topic: Variables That Are Unrelated

Answer Key Testname: UNTITLED1

305) D
Topic: Variables That Move in Opposite Directions
306) C
Topic: The Slope of a Relationship
307) B
Topic: Variables That Move in Opposite Directions
308) D
Topic: Variables That Move in Opposite Directions
309) A
Topic: Variables That Move in Opposite Directions
310) B
Topic: Variables That Move in the Same Direction
311) A
Topic: Variables That Move in Opposite Directions
312) A
Topic: Maximum and Minimum Points
313) C
Topic: Variables That Have a Maximum or Minimum
314) B
Topic: Variables That Have a Maximum or Minimum
315) A
Topic: Variables That Have a Maximum or Minimum
316) C
Topic: Variables That Have a Maximum or Minimum
317) A Topic: Maximum and Minimum Points
•
318) B Topic: Variables That Have a Maximum or a Minimum
319) D
Topic: Variables That Have a Maximum or a Minimum
320) D
Topic: Maximum and Minimum Points
321) B
Topic: Maximum and Minimum Points
322) C
Topic: Variables That Are Unrelated
323) B
Topic: Variables That Are Unrelated
324) C
Topic: Variables That Are Unrelated
325) C
Topic: Variables That Are Unrelated
326) A
Topic: Variables That Are Unrelated

350) D

Topic: The Slope of a Relationship

Testname: UNTITLED1

328) B Topic: Variables That Are Unrelated 329) B Topic: Variables That Are Unrelated 330) A Topic: Variables That Are Unrelated Topic: Variables That Are Unrelated 332) B Topic: Variables That Are Unrelated 333) B Topic: Variables That Move in the Same Direction 334) C Topic: Variables That Move in the Same Direction 335) C Topic: Study Guide Question, Variables That Move Same Direction 336) B Topic: Study Guide Question, Variables That Move Same Direction 337) D Topic: Study Guide Question, Variables That Move Same Direction 338) C Topic: Study Guide Question, Variables That Move Opposite Direction 339) A Topic: Study Guide Question, Variables That Are Unrelated 340) C Topic: The Slope of a Relationship 341) D Topic: The Slope of a Relationship 342) B Topic: The Slope of a Relationship 343) D Topic: The Slope of a Relationship 344) B Topic: The Slope of a Relationship 345) A Topic: The Slope of a Relationship 346) D Topic: The Slope of a Relationship 347) B Topic: The Slope of a Relationship 348) C Topic: The Slope of a Relationship Topic: The Slope of a Relationship

Answer Key Testname: UNTITLED1

351)		
2=2)	-	The Slope of a Relationship
352)		The Slope of a Relationship
353)	-	The Stope of a relationship
000)		The Slope of a Relationship
354)	В	
	-	The Slope of a Relationship
355)		The Character Deletion ship
256)	-	The Slope of a Relationship
356)		The Slope of a Relationship
357)	-	T T
,		The Slope of a Relationship
358)		
2= 0\	-	The Slope of a Relationship
359)		The Slope of a Relationship
360)	-	The Stope of a Relationship
500)		The Slope of a Relationship
361)	В	
	Topic:	The Slope of a Relationship
362)		The Class of a Charisht Line
363)	-	The Slope of a Straight Line
303)		The Slope of a Straight Line
364)		
,	Topic:	The Slope of a Straight Line
365)		
2(()		The Slope of a Straight Line
366)		The Slope of a Straight Line
367)		The stope of a stranger zare
,		The Slope of a Straight Line
368)		
	•	The Slope of a Straight Line
369)		The Slope of a Straight Line
370)	•	The Stope of a Straight Line
370)		The Slope of a Straight Line
371)	-	
	Topic:	The Slope of a Straight Line
372)		Will The Charles Committee
272	-	Variables That Move in Opposite Directions
373)		The Slope of a Relationship
	- opic.	Stope of a recumonomy

396) C

Topic: The Slope of a Curved Line

Testname: UNTITLED1

374) C Topic: Variables That Move in the Same Direction 375) C Topic: The Slope of a Relationship 376) A Topic: Variables That Move in Opposite Directions Topic: The Slope of a Straight Line 378) C Topic: Linear Relationship Topic: The Slope of a Straight Line 380) A Topic: The Slope of a Straight Line 381) C Topic: The Slope of a Straight Line 382) A Topic: The Slope of a Straight Line 383) C Topic: The Slope of a Straight Line 384) B Topic: The Slope of a Straight Line 385) D Topic: The Slope of a Straight Line 386) D Topic: The Slope of a Straight Line 387) D Topic: The Slope of a Straight Line 388) B Topic: The Slope of a Straight Line 389) A Topic: The Slope of a Straight Line 390) B Topic: The Slope of a Straight Line 391) D Topic: The Slope of a Straight Line 392) D Topic: Slope 393) A Topic: The Slope of a Straight Line 394) D Topic: The Slope of a Curved Line Topic: Slope of a Curved Line

419) A

Testname: UNTITLED1

397) B Topic: The Slope Across an Arc 398) B Topic: The Slope Across an Arc 399) D Topic: The Slope Across an Arc 400) B Topic: The Slope Across an Arc 401) A Topic: The Slope Across an Arc 402) D Topic: The Slope at a Point 403) B Topic: The Slope of a Relationship 404) C Topic: The Slope of a Relationship 405) B Topic: Slope Across an Arc 406) C Topic: Slope Across an Arc 407) D Topic: Slope Across an Arc 408) A Topic: Slope Across an Arc Topic: The Slope Across an Arc 410) C Topic: Slope Across an Arc 411) B Topic: Slope Across an Arc 412) C Topic: Slope Across an Arc 413) D Topic: Slope Across an Arc 414) A Topic: Maximum and Minimum Points 415) D Topic: Variables That Are Unrelated 416) B Topic: Study Guide Question, The Slope of a Relationship 417) C Topic: Study Guide Question, The Slope of a Straight Line Topic: Study Guide Question, The Slope of a Straight Line

Topic: Study Guide Question, The Slope of a Straight Line

Testname: UNTITLED1

420) B

Topic: Study Guide Question, The Slope Across an Arc

421) A

Topic: Study Guide Question, The Slope Across an Arc

422) B

Topic: Graphing Relationships, Two+ Variables, Ceteris Paribus

423) B

Topic: Graphing Relationships, Two+ Variables, Ceteris Paribus

424) B

Topic: Graphing Relationships, Two+ Variables, Ceteris Paribus

425) A

Topic: Graphing Relationships, Two+ Variables, Ceteris Paribus

426) D

Topic: Graph Relationships-More than Two Variables, Ceteris Paribus

427) B

Topic: Graphing Relationships Among More Than Two Variables

428) B

Topic: Graphing Relationships Among More Than Two Variables

429) C

Topic: Graphing Relationships Among More Than Two Variables

430) C

Topic: Graphing Relationships Among More Than Two Variables

431) D

Topic: Graphing Relationships Among More Than Two Variables

432) D

Topic: Graphing Relationships Among More Than Two Variables

433) D

Topic: Graphing Relationships Among More Than Two Variables

434) A

Topic: Graphing Relationships Among More Than Two Variables

435) B

Topic: Graphing Relationships Among More Than Two Variables

436) C

Topic: Graphing Relationships Among More Than Two Variables

437) B

Topic: Study Guide Question, Graphing Relationships Among 2+ Var.

438) B

Topic: Study Guide Question, Graphing Relationships Among 2+ Var.

439) A

Topic: Study Guide Question, Graphing Relationships Among 2+ Var.

440) Graphs help economists, and others, to visualize the relationships between economic variables. Graphs that plot variables together help economists understand if the variables are related and how they are related. Graphs also help provide a visual picture of economic models that link different variables. Indeed, many other disciplines use such visual models. For example, architects work with blueprints (their model) and the blueprints represent every detail of a building. Economists' models do not reflect of every detail of the real world, but the graphs that they use nonetheless are valuable because they help clarify the linkages between the variables.

Topic: Graphing Data

Testname: UNTITLED1

441) Variables can have two relationships: positive (or direct) and negative (or inverse). A positive relationship occurs when the variables move in the same direction, so that when one increases, the other also increases. A negative relationship occurs when the variables move in the opposite direction, so that when one increases, the other decreases. When a positive relationship is graphed, the line slopes upward to the right. When a negative relationship is graphed, the line slopes downward to the right.

Topic: Relationships

442) Two variables are positively related when an increase (decrease) in one is associated with an increase (decrease) in the other. In this case, the variables move together, in the same direction. Two variables are negatively related when an increase (decrease) in one is associated with a decrease (increase) in the other. In this case, the variables move in the opposite direction.

Topic: Relationships

- 443) When the graph of two variables is a vertical line, the variables are not related because, with this graph, whenever the variable measured along the vertical axis changes, the variable measured along the horizontal axis does not change.

 Topic: Unrelated Variables
- 444) The slope of a straight line is calculated between two points on the line. Between the two points on the line, the slope equals the change in the value of the variable measured on the vertical axis (the *y*-axis) divided by the change in the value of the variable measured on the horizontal axis (the *x*-axis). The slope of a curved line calculated at a point on the curve is equal to the slope of a tangent straight line. At that point on the curved line, draw a straight line that touches the curved line at only that point. Then, calculate the slope of the straight line. The slope of the curved line at that point equals the slope of the straight line.

Topic: Slope

445) The statement is false because it is possible to represent a three variable relationship in a two dimensional graph. To do so, start by focusing on two of the variables. Assume that the third variable does not change (the *ceteris paribus* assumption) and then graph the relationship between the two variables. The graph shows how these two variables are related when the third variable does not change. When the third variable does change, then the entire relationship between the two graphed variables changes. In other words, the line showing the relationship between the two graphed variables shifts so that it becomes an entirely new line. The shift in the line shows how the third variable influences the other two.

Topic: Graphing Relationships Among More Than Two Variables

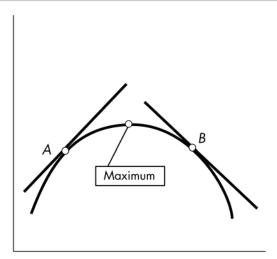
446) The figure shows that there is a positive relationship between advertising and the number of video games sold. The relationship is positive because the two variables move together: If advertising increases, so, too, does the number of games sold.

Topic: Positive Relationship

447) The figure shows that there is a negative relationship between hours on the web and the student's SAT score. The relationship is negative because the two variables move in opposite directions: If hours on the web increase, the SAT score decreases.

Topic: Negative Relationship

448)



The point is a maximum point. Examine the figure above. The slope of a curved line at any point equals the slope of a straight line that touches the curved line at only that one point. Thus to the left of the maximum point, take point A. The slope of the straight line that touches the curved line at only point A is positive, so the slope of the relationship is positive. Similarly, take point B to the right of the maximum point. As the straight line shows, the slope of the relationship at point B is negative. Indeed, whenever there is a maximum point, the slope of the relationship to the left of the maximum is positive and the slope to the right is negative.

Topic: Maximum

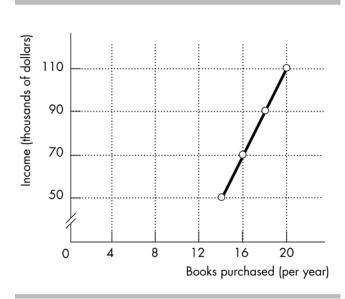
449) The slope is positive and increasing in size as we move rightward along the curve.

Topic: Slope

450) The slope equals the change in the y-variable divided by the change in the x-variable. So, the slope equals (10-5)/(7-2)=(5)/(5)=1.00.

Topic: Slope

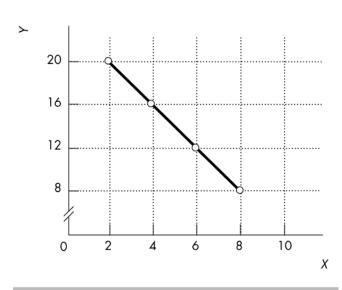
451) a) There is a positive relationship. When Katie's income increases, so too does her purchase of books.



- b) The relationship is plotted in the figure above.
- c) The slope equals the change in the value of the variable measured on the vertical axis, income, divided by the change in the value of the variable measured along the horizontal axis, the number of books. Between \$50,000 and \$70,000 of income, the number of books purchased increases from 14 to 16. Hence income increases by \$20,000 and the number of books increases by 2, so the slope equals \$20,000/2 = 10,000.
- d) As with the previous answer, the slope equals the change in income divided by the change in books. Between \$90,000 and \$110,000 of income, the number of books purchased increases from 18 to 20. Hence income increases by \$20,000 and the number of books increases by 2, so the slope equals \$20,000/2 = 10,000.
- e) The slopes in parts (c) and (d) are equal. But, they *must* be equal because the relationship between Katie's income and the number of books she purchases is linear. For a linear relationship, the slope is the same regardless of where it is measured.

Topic: Slope of a Straight Line

452)

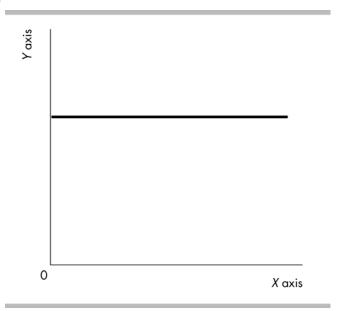


The figure labels the axes and graphs the relationship.

- a) The relationship between *X* and *Y* is negative.
- b) The slope equals -2.
- c) The slope equals -2.

Topic: Slope of a Straight Line

453)



A horizontal line has a slope of zero. The figure above shows a horizontal line with a slope of zero.

Topic: Slope of a Straight Line

454) The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (150 - 300)/(600 - 800) = 0.75.

Topic: Slope of a Straight Line

Testname: UNTITLED1

455) The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (18 - 27)/(10 - 20) = 0.90.

Topic: Slope of a Straight Line

456) The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (30 - 60)/(25 - 15) = -3.0.

Topic: Slope of a Straight Line

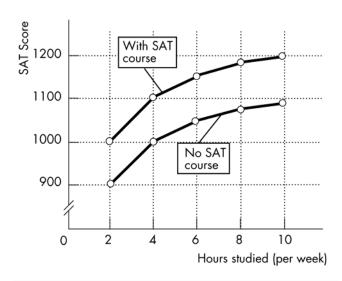
457) The slope equals the change in variable on the y-axis divided by the change in the variable on the x-axis, or (5 - 10)/(60 - 100) = 0.125.

Topic: Slope of a Straight Line

458) The slope of a curved line equals the slope of a straight line that touches the curved line at only that point. And, the slope of a straight line equals the change in variable on the y-axis divided by the change in the variable on the x-axis. Measure the slope of the straight line from point A to where the line crosses the x-axis, at 15. Thus the straight line has a slope of (30 - 0)/(10 - 15) = -6. Therefore the curve line at point A also has a slope equal to -6.

Topic: Slope of a Curved Line

459)



- a) The figure above plots the relationship between the number of hours Jamie studies and his SAT score.
- b) The relationship is positive: As Jamie increases the hours he studies, his SAT score increases.
- c) The relationship is nonlinear, so the slope of the relationship changes as the number of hours studied changes. In the figure, the slope of the relationship decreases in size as the number of hours studied increases.
- d) The figure above also plots the relationship between the hours Jamie studies and his SAT score if Jamie takes an SAT preparation course.
- e) There are three variables: The number of hours Jamie studies, whether or not he takes an SAT preparation course, and his SAT score.

Topic: Graphing Relationships Among More Than Two Variables

460) FALSE

Topic: Graphing Data

461) FALSE

Topic: Graphing Data

462) FALSE

Topic: Graphing Data

Testname: UNTITLED1

463) TRUE

Topic: Graphs Used in Economic Models

464) FALSE

Topic: Graphs Used in Economic Models

465) TRUE

Topic: Graphs Used in Economic Models

466) TRUE

Topic: The Slope of a Relationship

467) FALSE

Topic: The Slope of a Relationship

468) TRUE

Topic: The Slope of a Relationship

469) FALSE

Topic: The Slope of a Relationship

470) TRUE

Topic: The Slope of a Relationship

471) TRUE

Topic: Graphing Relationships Among More Than Two Variables

472) FALSE

Topic: Graphing Relationships Among More Than Two Variables