https://selldocx.com/products/test-bank-sullivan-calculus-early-transcendentals-2e-nan

A) B) C) D)	 The slope of the tangent line 2 1 2 4 	to the graph	at the point (2,-2) is
A) B) C) D) E)	2. The slope of the tangent line t	o the graph	at the point (4,6) is
B) C)	3. The slope of the tangent line to -3 -2 -1 1 2	o the graph	at the point (-1,1) is
A) B) C) D) E)	4. The slope of the tangent line t -3 -2 2 3 4	o the graph	at the point (-3, 2) is
A) B) C) D) E)	5. An equation of the tangent lin	e to the graph	at the point (-2, 6) is

A) B) C) D) E)	6. An equation of the tangent line to the graph at the point (-1,-3) is
A) B) C) D) E)	7. An equation of the tangent line to the graph at the point (1, 3) is
A) B) C) D) E)	8. An equation of the tangent line to the graph $at the point (6, 3) is$
A) B) C) D) E)	9. The instantaneous rate of change of $c = 5$ is -3 4 5 17 20
A) B) C) D)	
E)	2

A) B) C) D) E)	The instantaneous rate of change of	at c - 4 is
1 A) B) C) D) E)	-3 -2 3	at $c=2$ is
1 A) B) C) D) E)	1	at $c=2$ is
1 A) B) C) D) E)	4. The instantaneous rate of change of	at $c = 9$ is
A) B) C) D)	-3	

16. The derivative of at x = -2 is

- A) -4
- B) -2
- C) -1
- D) 2
- E) 4

17. The derivative of at x = 8 is

- A)
- B)
- C)
- D)
- E)

18. The derivative of at x = 0 is

- A) -8
- B) 7
- C) 0
- D) 8
- E) -7

19. The derivative of at x = -4 is

- A) -5
- B) -4
- C) 1
- D) 4
- E) 5

20. The derivative of at x = 4 is

- A) -4
- B)
- C)
- D)
- E)

21.	A pump is us	ed to empty a	350-gallon he	ot tub. The tab	le shows the a	mount of
	water, $W(t)$, measured in gallons, remaining in the hot tub at time t, measured in					
	minutes after the pump is turned on.					
	T	0	15	30	45	60
	W(t)	350	320	280	225	170

Approximate W(30) in this context.

- A) Water is draining at a rate of 28/3 gallons per minute when the pump has been operating for 30 minutes.
- B) Forty gallons of water have been removed from the hot tub in 15 minutes of time.
- C) There are 280 gallons of water in the hot tub 30 minutes after the pump is turned on.
- D) Water is draining from the hot tub at a rate of 8/3 gallons per minute when the pump has been operating for 30 minutes.
- E) Water is draining from the hot tub at a rate of 280 gallons per half-hour.
 - 22. A dehumidifier is used to reduce the moisture in a basement. The level of moisture reported on the display panel when the dehumidifier is turned on is 70%. The percent moisture, P(t), at time t is recorded for different times t in the table.

T	0	2	6	15	20
P(t)	70	67	60	53	51

Estimate P'(20).

- A) -0.20% per minute
- B) -0.10% per minute
- C) 0.10% per minute
- D) 0.20% per minute
- E) 0.40% per minute

23. Let Then is A)
$$-2x$$
 B) $-x^2$

- C) 2x
- C) 2A
- D) χ^2
- E) 4-2x

- 24. Let Then is
- A) -4
- B)
- C)
- D)
- E) 4
 - 25. Let Then is
- A)
- B)
- C)
- D)
- E)
- 26. Let Then is
- A)
- B)
- C)
- D)
- E)
- 27. Let Then is
- A)
- B)
- C)
- D)
- E)
 - 28. Let Then is
- A)
- B)
- C) 1
- D)
- E)

C) 5 D) 6 E) 9 30. Let Then does not exist if χ is A) 0 B) 1 C) 4 D) 9 E) 16 Then does not exist if χ is 31. Let A) -2 B) -1 C) 0 D) 1 E) 2 32. Let Then does not exist if χ is A) -5 B) 1 C) 2 D) 3 E) 5 33. Let Which of the following is true? A) f is discontinuous at 0. B) f has a derivative at 0. C) f has a corner at (0,0). D) f has a horizontal tangent line at (0,0). E) f has a vertical tangent line at (0,0).

Then does not exist if χ is

29. Let

A) -9 B) -5

- 34. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 35. Let . Which of the following is true?
- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 36. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f does not have a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 37. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f does not have a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).

- 38. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 39. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f does not have a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 40. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).
 - 41. Let Which of the following is true?
- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).

42. Let . Which of the following is true?

- A) f is discontinuous at 0.
- B) f has a derivative at 0.
- C) f has a corner at (0,0).
- D) f has a horizontal tangent line at (0,0).
- E) f has a vertical tangent line at (0,0).

43. Let Then is

- A) $-\frac{1}{e^2}$
- B) $\frac{1}{1}$
- C) $-\frac{2}{e^2}$
- D) $\frac{2}{e^2}$
- E) 0

44. Let Then is

- A) 0
- B)
- C)
- D)
- E)

45. Let Then if $^{\chi}$ is

- A) -3
- B) -1
- C) 0
- D) 1
- E) 3

46. Let Then if $^{\chi}$ is

- A) -2
- B) -1
- C) 0
- D) 1
- E) 2

47. Let Then if $^{\chi}$ is

- A)
- B) -1
- C) 0
- D) 1
- E) *e*

48. Let Then if $^{\chi}$ is

- A) -6
- B) -ln6
- C) 0
- D) ln 6
- E) 6

49. Let 6 . Then 6 for all $^{\chi}$ in

- A) 6
- B) 6
- C) 6
- D) 6
- E) 6

50. Let 6 Then 6 for all x in

- A) 6
- B) 6
- C) 6
- D) 6
- E) 6

51. Let 6 Then 6 for all x in

- A) 6
- B) 6
- C) 6
- D) 6
- E) 6

	2. Let 6 Then 6 for all x in
	$(-\infty,\infty)_6$
B) C)	
D)	
E)	6
5. A) B) C) D) E)	6 6
54	4. Let ⁶ Then which of the following is the largest interval, of those listed,
4.	for which 6 for all X in that interval?
A) B)	
C)	6
E)	6 6
E)	
5.	5. Let ⁶ Then which of the following is the largest interval, of those listed, for
A)	which 6 for all x in that interval?
B)	6
	6
D) E)	(-3,3) 6
	6 r , 6 m , 6 c , 11 ° ;
	6. Let ⁶ Then ⁶ for all x in $(-\infty,\infty)$
B)	6
,	6
D) E)	6 6
-,	

5 A) B) C) D) E)	7. Let 6 which 6 6 6 6 6	Then which of the following is the largest interval, of those listed, for 6 for all $^\chi$ in that interval?
5 A) B) C) D) E)		Then which of the following is the largest interval, of those listed, for 6 for all $^{\mathcal{X}}$ in that interval?
5 A) B) C) D) E)		Then which of the following is the largest interval, of those listed, for 6 for all $^\chi$ in that interval?
6 A) B) C) D) E)		Then which of the following is the largest interval, of those listed, for 6 for all $^{\mathcal{X}}$ in that interval?

 61. Let Then which of the following is the largest interval, of those listed, for which for all X in that interval? A) B) C) D) E)
 62. Let Then which of the following is the largest interval, of those listed, for which for all ^x in that interval? A) B) C) (0,4) D) E)
63. What is the equation of the normal line to the graph of at $x = 1$? A) $y = x$ B) $y = -x$ C) D) E)
64. What is the equation of the normal line to the graph of at $x = 9$? A) B) C) D) E)
65. Let Then is A) B) C) D) E)

66. Let Then is A) B) C) D) E) 67. Let Then is A) B) C) D) E) 68. Let Then is A) B) C) D) E) 69. Let Then is A) B) C) D) E) 70. Let Then is A)

B) C) D) E)

71. Let Then is A) B) C) D) E) 72. Let Then is A) B) C) D) E) 73. Let Then is A) B) C) D) E) 74. Let Then is A) B) C) D) E) 75. Let Then is A)

B) C) D) E)

76. A) B) C) D) E)	Let	Assun	ning	is	
77. A) B) C) D) E)	Let	Then	is		
78. A) B) 0 C) D) E)		Assum	ing	is	
79. A) B) C) D) E)	Let	Then	is		
80. A) B) C) D) E)	The f	fourth de	erivati	ive	is

 81. The fifth derivative is A) B) C) D) E) 	
82. The second derivative A) B) C) 0 D) E)	is
83. The sixth derivative is A) 720 B) C) 0 D) -720 E) -720 X	
84. Let Then is A) B) 0 C) D) E)	
85. Let Then is A) B) C) D) E)	

86. Let Then is A) B) C) D) E) 87. Let .Then is is A) B) C) D) E) 88. Let Then is A) B) C) D) E) 89. Let Then is A) B) C) D) E) 90. Let Then is A) B) C) 1

D) E)

91. Let Then is A) B) C) D) E) 92. Let If then f has a horizontal tangent line for each x in A) B) C) D) E) 93. Let If then f has a horizontal tangent line for each χ in $\stackrel{\frown}{B}$ $\{\pi\}$ C) D) E) 94. Let If then f has a horizontal tangent line for each χ in A) B) C) D) E) 95. Let If then f has a horizontal tangent line for each χ in B) C) D)

E)

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96. Let If then f has a horizontal tangent line for each x in
A)
B)
C)
D)
E)
  97. Let If then f has a horizontal tangent line for each \chi in
A)
B)
C)
D)
E)
  98. Let If then f has a horizontal tangent line for each \chi in
A) 0
B)
C)
D)
E)
  99. Let Then is
A)
B)
C)
D)
E)
100. Let Then is
A)
B)
C)
D)
E)
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101. Let Then is
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- A) $2e^x \cos x$
- B)
- C)
- D)
- E)
- 102. Let Then is
- A)
- B)
- C)
- D)
- E)
- 103. Let Then is
- A)
- B)
- C)
- D)
- E)
- 104. Let . Then is
- A)
- B)
- C)
- D)
- E)

Answer Key

- 1. A
- 2. B
- 3. E
- 4. B
- 5. A
- 6. C
- 7. A
- 8. C
- 9. B
- 10. C
- 11. C
- 12. A
- 13. B
- 14. D
- 15. A
- 16. C
- 17. D
- 18. A
- 19. B
- 20. D
- 21. D
- 22. B
- 23. A
- 24. A
- 25. D
- 26. D
- 27. A
- 28. D
- 29. E
- 30. A
- 31. C
- 32. E
- 33. C
- 34. E
- 35. A
- 36. D 37. D
- 38. A
- 39. D
- 40. B
- 41. A
- 42. B
- 43. E
- 44. A

- 45. E
- 46. D
- 47. C
- 48. D
- 49. E
- 50. E
- 51. B
- 52. B
- 53. A
- 54. D
- 55. C
- 56. C
- 57. C
- 58. E
- 59. E
- 60. D
- 61. E 62. C
- 63. D
- 64. B
- 65. A
- 66. C
- 67. C
- 68. D
- 69. E
- 70. C
- 71. A
- 72. C
- 73. E
- 74. D
- 75. D
- 76. D
- 77. B
- 78. B
- 79. A
- 80. D
- 81. E
- 82. D
- 83. A
- 84. E
- 85. C
- 86. D
- 87. D
- 88. D
- 89. C
- 90. B

- 91. D
- 92. A 93. E 94. E
- 95. E
- 96. E

- 97. E 98. A 99. E
- 100. B
- 101. A 102. A 103. B 104. A