

Stewart - Calculus 8e Chapter 1 Form C

Select the correct answer for each question.

_____ 1. Which of the following graphs is neither even nor odd?

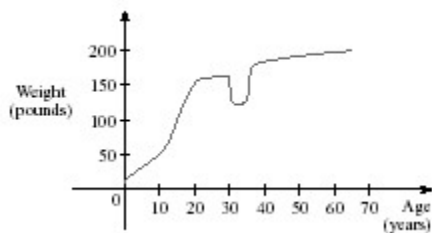
- a. $f(x) = \frac{4x^2}{x^4 + 1}$
- b. $f(x) = 8x^3 + 10x^2 + 1$
- c. $f(x) = x^3 - 9x$

_____ 2. Find the domain of the function.

$$f(x) = \frac{7x + 1}{x^2}$$

- a. $(-\infty, 0)$
- b. $\left(-\infty, -\frac{1}{7}\right) \cup \left(-\frac{1}{7}, \infty\right)$
- c. $\left(-\infty, \frac{1}{7}\right) \cup \left(\frac{1}{7}, \infty\right)$
- d. $(-\infty, 0) \cup (0, \infty)$

_____ 3. The graph shown gives the weight of a certain person as a function of age. Find the age at which the person started an exercise program.



- a. 20
- b. 54
- c. 38
- d. 30
- e. 35

Stewart - Calculus 8e Chapter 1 Form C

- _____ 4. The relationship between the Fahrenheit and Celsius temperature scales is given by the linear function.

$$F = \frac{9}{5}C + 32$$

What is the F -intercept and what does it represent?

- a. $\frac{9}{5}$, Fahrenheit temperature corresponding to $0^\circ C$
- b. $\frac{9}{5}$, Celsius temperature corresponding to $32^\circ C$
- c. 32, Celsius temperature corresponding to $0^\circ F$
- d. 0, Fahrenheit temperature corresponding to $32^\circ C$
- e. 32, Fahrenheit temperature corresponding to $0^\circ C$

- _____ 5. Use the table to evaluate the expression $(f \circ g)(6)$.

x	1	2	3	4	5	6
$f(x)$	3	2	1	0	1	2
$g(x)$	6	5	2	3	4	6

- a. 5
- b. 2
- c. 3
- d. 4
- e. 6