## Test Bank for Intermediate Algebra with Applications and Visualization 3rd Edition Rockswold Krieger 0321500032 9780321500038

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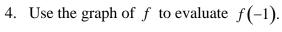
## Test Bank:

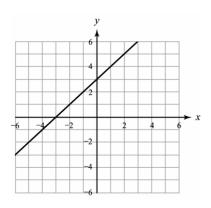
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Solution Manual:

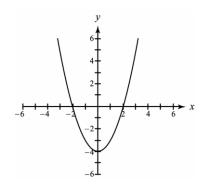
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Chapter 2, Test Form A Name:	
1. Evaluate $f(-2)$ if $f(x) = 4 - 3x^2$ .	1
2. Write a symbolic representation (formula) for a function <i>S</i> that calculates the number of seconds in <i>x</i> minutes. Evaluate $S(4)$ and interpret your result.	2
3. Sketch a graph of $f(x) = x^2 - 2$ .	3. y





5. Determine the domain and range of f.

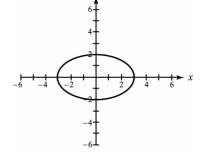


4. \_\_\_\_\_

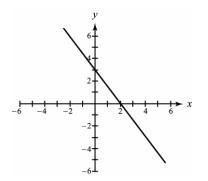
 $\blacktriangleright x$ 

7.\_\_\_\_\_

- 7. Determine whether the graph represents a function.



- 8. Find the domain of  $f(x) = \frac{3}{4}x + 7$ .
- 9. Find the slope and *y*-intercept of the graph of  $y = 3x \frac{5}{2}$ .
- 10. Find the slope of the line passing through  $\left(\frac{1}{2}, -2\right)$  and  $\left(0, -3\right)$ .
- 11. Determine the slope of the line shown in the graph.



8.\_\_\_\_\_ 9.\_\_\_\_\_ 10.\_\_\_\_\_

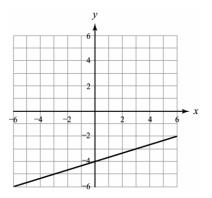
- 13. Write the slope-intercept form of the line passing through13.(1,3) and  $(\frac{1}{2},1)$ .
- 14. Let f be a linear function. Find the slope of the graph of f.

	x	-4	-2	-1	0	1
f	f(x)	-6	0	3	6	9

15. Let *f* be a linear function. Find the *x*- and *y*-intercepts of the graph of *f*.

x	-2	0	1	2	3
f(x)	8	4	2	0	-2

- 16. Give the slope-intercept form of a line parallel to 16. \_\_\_\_\_\_ y = 5 - 4x, passing through  $(\frac{1}{2}, 1)$ .
- 17. Find the slope-intercept form for the line shown in the graph. 17.



14.

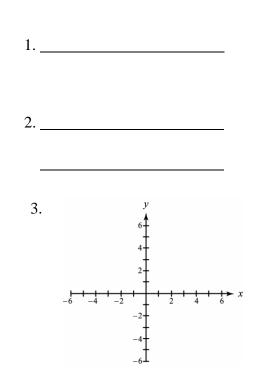
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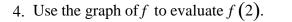
19. Find an equation of the vertical line passing through the point  $\left(\frac{1}{2}, -\frac{3}{4}\right)$ .

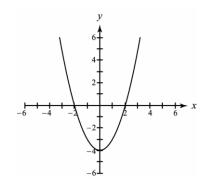
19.\_\_\_\_\_

20. Find an equation of the horizontal line passing through the point  $\left(-\frac{2}{3},1\right)$ .

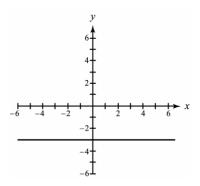
- 1. Evaluate f(-2) if f(x) = -3x + 1.
- 2. Write a symbolic representation (formula) for a function C that calculates the cost of x gallons of gasoline at \$2.50 per gallon. Evaluate C(10) and interpret your result.
- 3. Sketch a graph of f(x) = x+3.







5. Determine the domain and range of f.





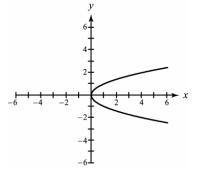
4.

- 6. A function f is represented verbally by "Cube the input x and then subtract 4." Give a symbolic representation of f.
- 7. Determine whether the graph represents a function.

- 8. Find the domain of  $f(x) = \sqrt{x-5}$ .
- 9. Find the slope and *y*-intercept of the graph of y = 2x 3.
- 10. Find the slope of the line passing through (1,3) and  $(\frac{1}{2},1)$ .
- 11. Determine the slope of the line shown in the graph.

2

- 6. \_\_\_\_\_
  - 7.\_\_\_\_\_



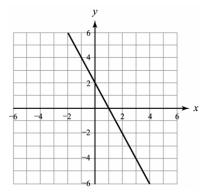
- 13. Write the slope-intercept form of the line passing through 13. \_\_\_\_\_\_ the points  $\left(\frac{3}{2}, 2\right)$  and  $\left(1, \frac{1}{2}\right)$ .
- 14. Let *f* be a linear function. Find the slope of the graph of *f*.

x	-2	0	2	3	4
f(x)	6	4	2	1	0

15. Let *f* be a linear function. Find the *x*- and *y*-intercepts of the graph of *f*.

x	-2	-1	0	1	2
f(x)	9	6	3	0	-3

- 16. Give the slope-intercept form of a line perpendicular to  $y = -\frac{3}{5}x 2$ , passing through (6, -2).
- 17. Find the slope-intercept form for the line shown in the graph. 17. \_\_\_\_\_



15	
-	
16. <u>-</u>	 

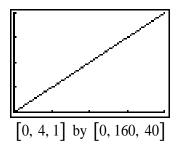
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19. Find an equation of the vertical line passing through the point  $\left(-\frac{2}{3},1\right)$ .

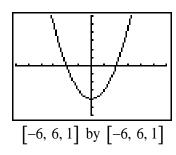
19.\_\_\_\_\_

20. Find an equation of the horizontal line passing through the point  $\left(\frac{3}{2}, -\frac{1}{2}\right)$ .

C	hapter 2, Test Form C Name:	
1.	For the years 1890 to 1960, the median age for a man's first marriage can be modeled by $f(x) = -0.0492x + 119.1$ , where x is the year. Find the median age in 1930. Round answer to the nearest year.	1
2.	The median price of a single-family home during the years 1990 to 2000 can be approximated by $P(x) = 5421x + 89,000$ , where $x = 0$ corresponds to the year 1990 and $x = 10$ corresponds to the year 2000. Find the median price of a single-family home in 1998.	2
3.	Use your graphing calculator to graph $f(x) = -3x + 5$ .	3. [-6, 6, 1] by [-6, 6, 1]
4.	Susan begins driving along a country road at a rate of 40 mph. The graph illustrates the distance from her place of origin after $t$ hours. How far has Susan traveled after 3 hours?	4



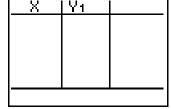
5. Determine the domain and range of f.

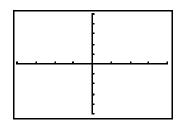


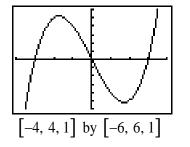
6. A function *f* is represented verbally by "Square the input *x* and then subtract 4." Give symbolic, numerical and graphical representations of *f*. Let x = -3, -2, -1, ..., 3

in the numerical representation (table) and let  $-4 \le x \le 4$  for the graph.

6.\_\_\_\_\_







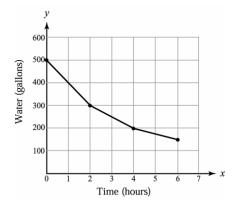
- 8. Find the domain of f(x) = x 2.5.
- 9. The monthly cost of operating a car can be modeled by the linear function C(x) = 0.39x + 395, where x represents the number of miles driven.
  - (a) Find the slope of the graph of the function. What does the slope represent?
  - (b)Find the *y*-intercept of the graph of the function. What does the *y*-intercept represent?
- 10. In 1994, tuition and fees at a public four-year college were \$2125. In 1997, tuition and fees increased to \$2689. What was the average yearly increase in fees from 1994 to 1997?

10.

9. (a)\_\_\_\_\_

(b)\_\_\_\_

11. The graph represents the amount of water (in gallons) remaining in a tank after *t* hours. At what rate was water being drained from the tank when  $2 \le t \le 4$ ?



- 12. Write the slope-intercept form of a line with *x*-intercept 1.29 and *y*-intercept -2.58.
- 13. On Labor Day 2000, there were 24.8 travelers (in millions). On Labor Day 2004, there were 29.2 travelers (in millions). Let *x* represent the number of years since 2000. Write the slope-intercept equation of the line that passes through (0, 24.8) and (4, 29.2).
- 14. The following table shows equivalent temperatures in degrees Celsius and degrees Fahrenheit. This data can be modeled by a linear function. Use your graphing calculator to find the slope of the graph of that function.

С	-40°	$0^{\circ}$	15°	35°	100°
F	-40°	32°	59°	95°	212°

- 15. (a) Find the *y*-intercept of the graph of the linear function modeled in #14.
  - (b) What does the *y*-intercept represent?
- 16. Give the slope-intercept form of a line parallel to y = 1.28x 7.18, passing through (2, 3.17).

 12.

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 13.

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 14.

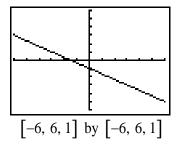
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 15. (a)

 (b)

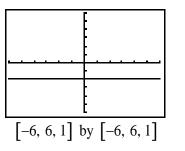
 16.

17. Find the slope-intercept form for the line shown in the graph. 17.



- 19. Find an equation of the horizontal line in the graph.

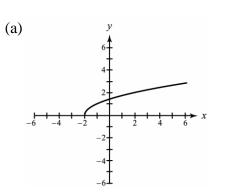


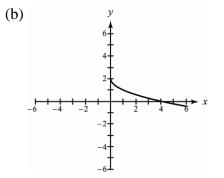


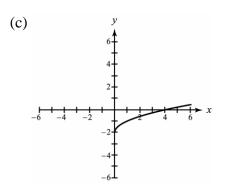
20. From 1980 to 1997, the number of U.S. marriages (in millions) could be modeled by f(x) = 2.4, where *x* represents the years since 1980. Estimate the number of marriages in 1986.

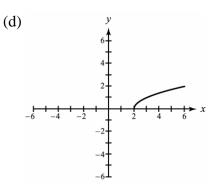
Chapter 2, Test	Form D	Nam	e:	
1. Evaluate $f(-3)$	3) if $f(x) = -x^2 + 2$ .			1
(a) 11	(b) -7	(c) -11	(d) -1	
2. Evaluate $f(2)$	) if $f(x) = -5x + 6$ .			2
(a) -4	(b) -16	(c) 16	(d) 4	

3. Sketch a graph of  $f(x) = \sqrt{x} - 2$ .

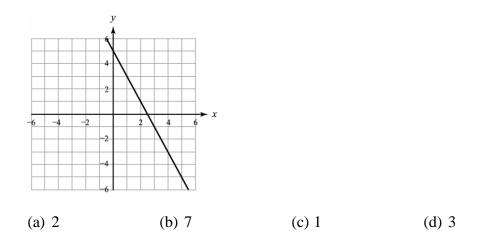








4. Use the graph of f to evaluate f(1).



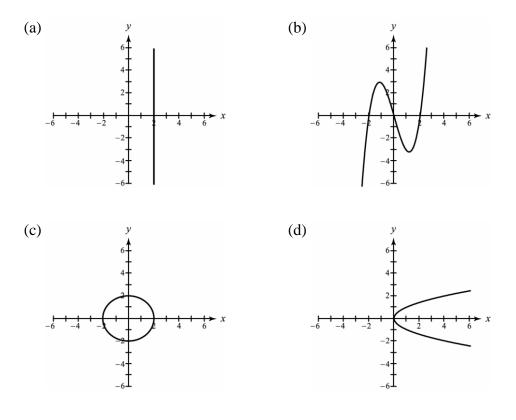
5. Determine the range of f.

(a)  $-4 \le y \le 2$  (b)  $-2 \le y \le 2$  (c)  $y \ge -4$  (d) all real numbers

- 6. A function *f* is represented verbally by "Cube the input *x* and then add 4."6. \_\_\_\_\_Give a symbolic representation of *f*.
  - (a)  $f(x) = \sqrt[3]{x+4}$  (b)  $f(x) = x^3 + 4$
  - (c)  $f(x) = x^3 + 64$  (d)  $f(x) = (x+4)^3$

4. \_\_\_\_\_

7. Determine which graph represents a function.



- 8. Find the domain of  $f(x) = -\frac{2x}{x+4}$ .
  - (a)  $x \neq -4$  (b)  $x \le 4$  (c)  $x \neq 0$  (d)  $x \ge 0$
- 9. Find the slope and *y*-intercept of the graph of the linear equation  $y = 3x \frac{5}{2}$ .
  - (a)  $m = 3; \left(\frac{5}{6}, 0\right)$ (b)  $m = -\frac{1}{3}; \left(-\frac{5^2}{6}, 0\right)$ (c)  $m = -\frac{1}{3}; \left(0, \frac{5}{6}\right)$ (d)  $m = 3; \left(0, -\frac{5}{2}\right)$

10. Find the slope of the line passing through  $\left(\frac{3}{2}, 2\right)$  and  $\left(1, \frac{1}{2}\right)$ .

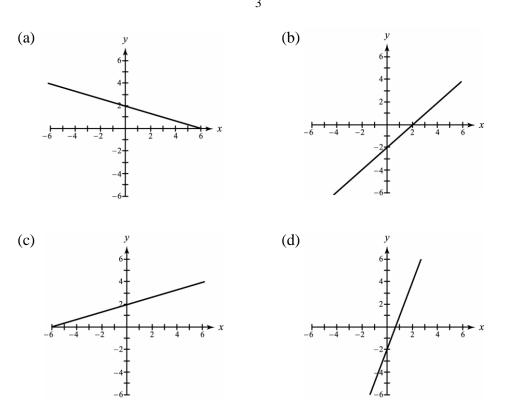
(a) 1 (b) 3 (c)  $\frac{1}{3}$  (d) -1

7.\_\_\_\_\_

8.\_\_\_\_\_

10. \_\_\_\_\_

9



- 12. Write the slope-intercept form of the line with *x*-intercept 3 and *y*-intercept  $\frac{3}{4}$ . 12. \_\_\_\_\_ (a)  $y = -\frac{1}{4}x + 3$  (b) y = 4x - 12 (c)  $y = -\frac{1}{4}x + \frac{3}{4}$  (d) y = 4x + 3
- 13. Find the slope-intercept form of the line passing through  $\left(\frac{1}{2}, -2\right)$  and  $\left(0, -3\right)$ . 13. \_\_\_\_\_

(a) 
$$y = \frac{1}{2}x + \frac{5}{4}$$
 (b)  $y = \frac{1}{2}x - 3$  (c)  $y = 2x - 3$  (d)  $y = 2x + 1$ 

14. Let f be a linear function. Find the slope of the graph of f.

x -20 1 2 4 2 0 8 4 -4 y (a) −2 (b) 4 (c) -4 (d) 2

11. Determine which line has a slope of  $\frac{1}{3}$ .

11. \_\_\_\_\_

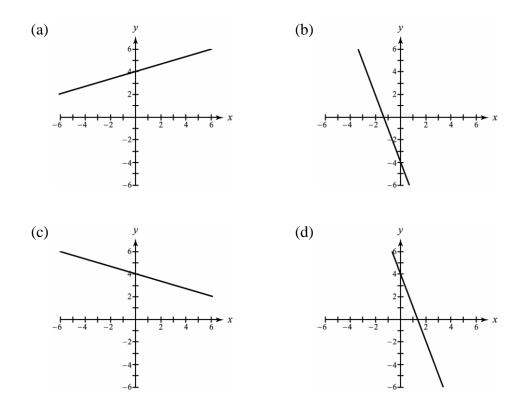
15. Let f be a linear function. Find the x- and y-intercepts of the graph of f.

x	-4	-2	-1	0	1
у	-6	0	3	6	9

- (a) x int : (0, 6) (b) x int : (0, -2) (c) x int : (6, 0) (d) x int : (-2, 0)y - int : (-2, 0) y - int : (6, 0) y - int : (0, -2) y - int : (0, 6)

(a) 
$$y = -\overline{3}x + 3$$
 (b)  $y = \frac{2}{3}x - \frac{17}{3}$  (c)  $y = \frac{3}{2}x - 7$  (d)  $y = -\overline{3}x - 3$ 

17. Find the graph of the linear equation y = -3x + 4.



18. Find the equation of a line that passes through the origin and is perpendicular 18.\_\_\_\_\_\_to the line given in #17.

(a) 
$$y = -3x$$
 (b)  $y = \frac{1}{2}x$  (c)  $x = \frac{-3y+4}{3}$ 

15. \_\_\_\_\_

(d) 
$$y = \frac{1}{x} + 4$$

19. Find an equation of the vertical line passing through the point  $\left(\frac{3}{2}, -\frac{1}{2}\right)$ . 19. \_\_\_\_\_

(a) 
$$\frac{3}{2}x - \frac{1}{2}y = 0$$
 (b)  $x = \frac{3}{2}$  (c)  $y = -\frac{1}{2}$  (d)  $y = \frac{3}{2}x - \frac{1}{2}$ 

20. Find an equation of the horizontal line passing through the point  $\left(\frac{1}{2}, -\frac{3}{4}\right)$ . 20. \_\_\_\_\_

(a) 
$$y = -\frac{4}{2}$$
 (b)  $y = \frac{1}{2}x - \frac{3}{4}$  (c)  $x = \frac{1}{2}$  (d)  $\frac{1}{2}x - \frac{3}{4}y = 0$