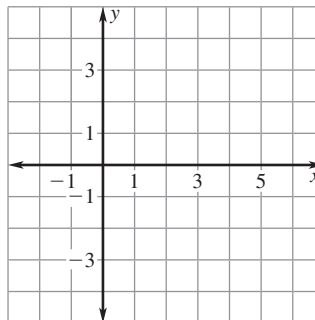


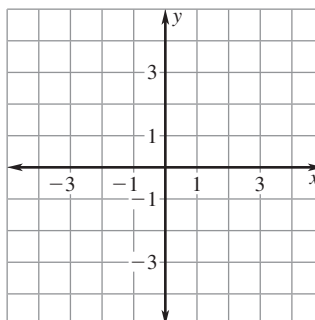
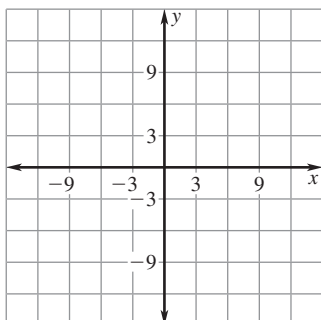
**CHAPTER 4** **Chapter Test C**  
For use after Chapter 4

1. Plot the points  $P(-2, -3)$ ,  $Q(1, 0)$ ,  $R(3, 0)$ , and  $S(5, -3)$  in the coordinate plane. Connect the points in order. Identify the resulting figure. Find its area.



**Graph the function with the given domain. Then identify the range of the function.**

2.  $y = 4x + 3$ ; domain  $-2 \leq x \leq 2$     3.  $y = -2x - 1$ ; domain  $x \leq 0$



**Find the x-intercept and the y-intercept of the graph of the equation.**

4.  $3x - 2y = 8$     5.  $y = -0.4x + 1$     6.  $y = -\frac{3}{4}x + 3$

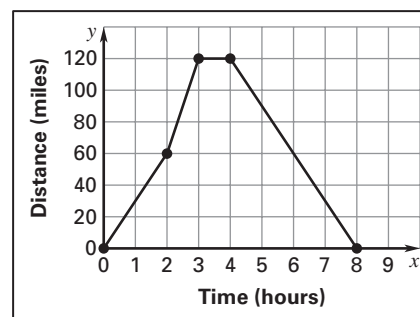
**Find the slope of the line that passes through the points.**

7.  $(-4, -3)$  and  $(-1, 1)$   
8.  $(-1, -3)$  and  $(4, -3)$   
9.  $(-2, 3)$  and  $(1, -3)$

**In Exercises 10 and 11, use the following information.**

The graph shows the distance of a car traveling along a straight road for 8 hours.

10. Give a verbal description of the trip.  
11. What do the intercepts represent in this situation?



**Answers**

1. See left.  
2. See left.  
3. See left.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.

CHAPTER  
4

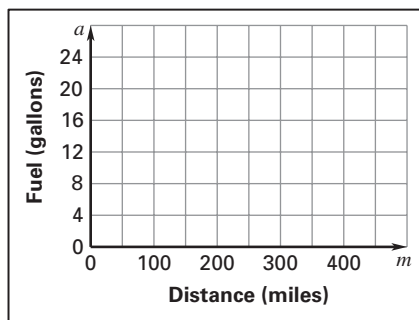
## Chapter Test C continued

*For use after Chapter 4*

**In Exercises 12 and 13, use the following information.**

Your family and a friend's family are going on vacation. The amount of fuel remaining in your family's car after driving  $m$  miles is given by the equation  $a = -0.03m + 12$  because it has a 12-gallon fuel tank and uses 0.03 gallon of fuel per mile driven. The amount of fuel remaining in your friend's van is given by the equation  $a = -0.08m + 22$ .

- 12.** Graph both equations in the coordinate plane.



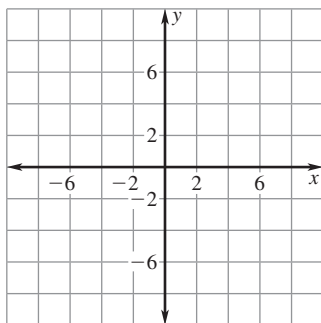
- 13.** Use the graphs to find the difference of the amount of fuel remaining in the two fuel tanks after driving 100 miles.

**Given that  $y$  varies directly with  $x$ , write a direct variation equation that relates  $x$  and  $y$ .**

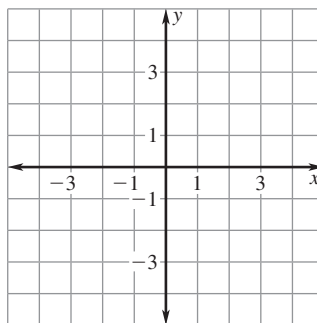
- 14.**  $x = -8, y = 5$       **15.**  $x = \frac{1}{3}, y = 2$       **16.**  $x = -3, y = -4.5$

**Graph the function. Compare the graph to the graph of  $f(x) = x$ .**

**17.**  $g(x) = x - 5$



**18.**  $h(x) = -\frac{1}{2}x$



**Answers**

**12.** See left.

**13.** \_\_\_\_\_

**14.** \_\_\_\_\_

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

**16.** \_\_\_\_\_

**17.** See left.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**18.** See left.

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