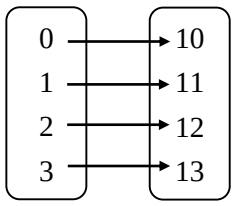
Name: _____ Period: _____

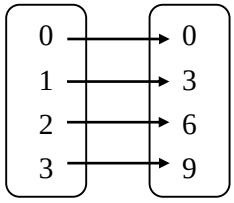
6.2 Representation of Graphs

Write an equation that describes the function.

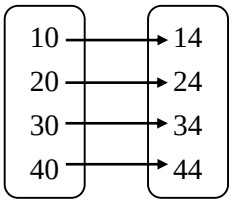
1)



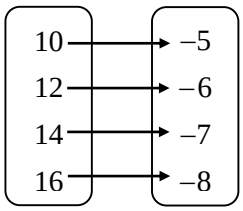
2)



3)



4)



Write a function rule for the statement.

5) The output is eight less than the input. _____

6) The output is double the input. _____

7) The output is five times the input. _____

8) The output is two more than the input. _____

Find the value of y for the given value of x.

9) $y = x - 8;\ x = 5$

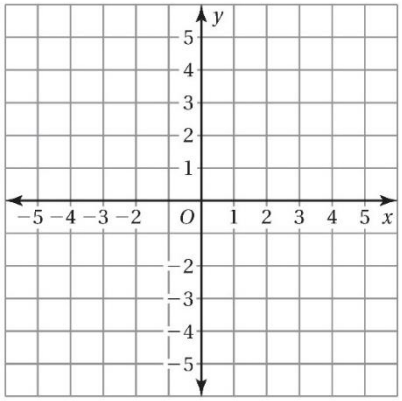
10) $y = 8x;\ x = 3$

11) $y = 4x - 1;\ x = 10$

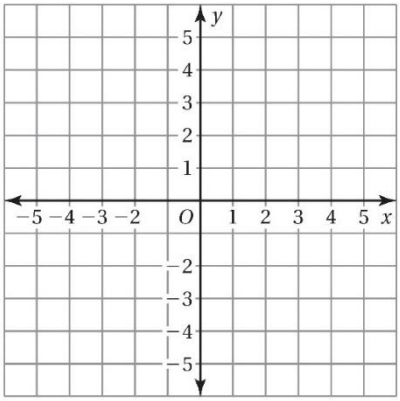
12) $y = \frac{x}{2} + 5;\ x = -4$

Graph the function.

13) $y = \frac{x}{3} - 4$



14) $y = 2x - 5$



Find the value of x for the given value of y.

15) $y = 6x - 4; y = 20$

16) $y = \frac{x}{2} + 3; y = 1$

17) You are running at a rate of 6 miles per hour.

a. Write a function that represents the distance d traveled in h hours.

b. How many miles do you run in 2 hours?

18) The cost of admission for a student is $4 less than the cost of admission for an adult.

a. Write a function that relates the cost of admission for a student s with the cost of for an adult a.

b. What is the cost of admission for a student when the cost of admission for an adult is $7.50?

c. What is the cost of admission for an adult when the cost of admission for a student is $2?