6.1-6.3 Review

In your own words, describe what a function is?
How is it different from other relationships?

1) a) What variable represents the input in a function?

b) What are two other names for the input?

2) a) What variable represents the output in a function?

b) What are two other names for the output?

Tell whether the pairing is a function.

3. $\{(1, 3), (2, 0), (4, 4)\}$ **4.** $\{(-1, 1), (7, 2), (8, 5)\}$ **5.** $\{(0, -5), (2, -1), (9, 7)\}$

Determine whether the relation is a function.

6.

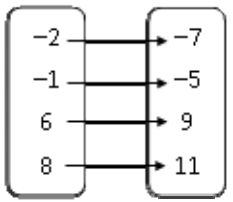
x	2	3	4	5
y	4	7	10	13

7.

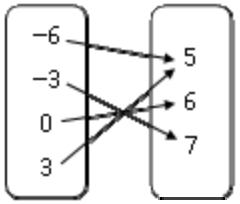
x	3	4	3	2
y	−2	3	2	4

List the ordered pairs shown in the mapping diagram.

8)



9)



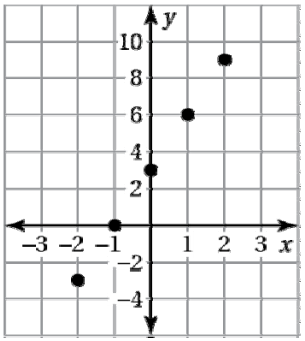
Draw a mapping diagram of the ordered pairs.

10) $(-15,-17),(-9,-11),(-6,4),(-2,8)$

11) $(-5,3),(-3,1),(2,1),(6,3)$

Draw a mapping diagram of the ordered pairs derived from the graph.

12)



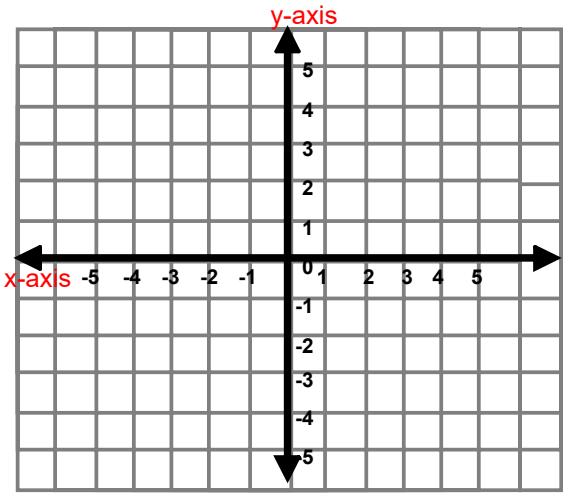
Find the value of y for the given value of x.

13) $y = 10x;\ x = -3$

14) $y = 6 - 2x;\ x = 11$

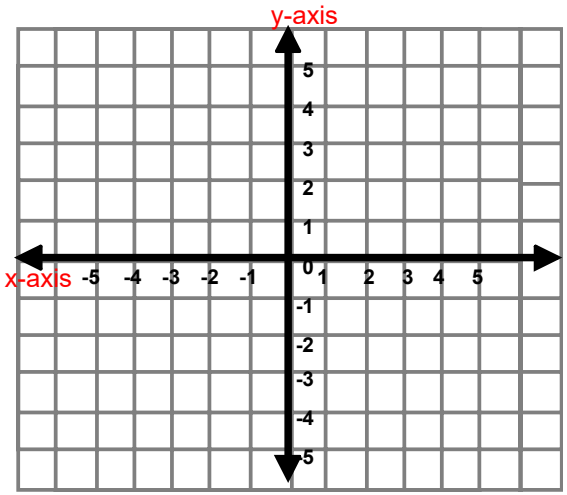
Graph the function

15) $y = x + 1$



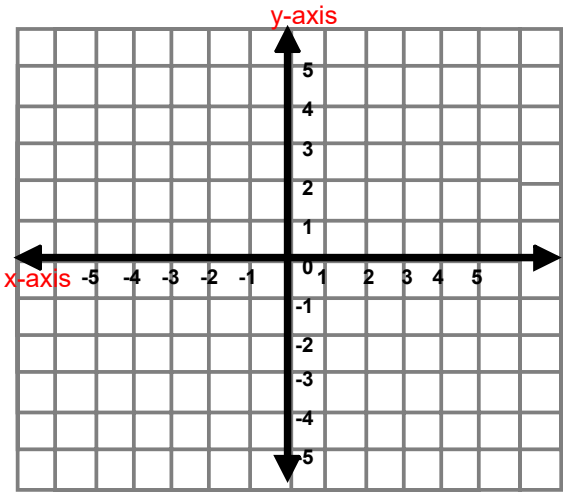
Graph the function

16) $y = -3x$



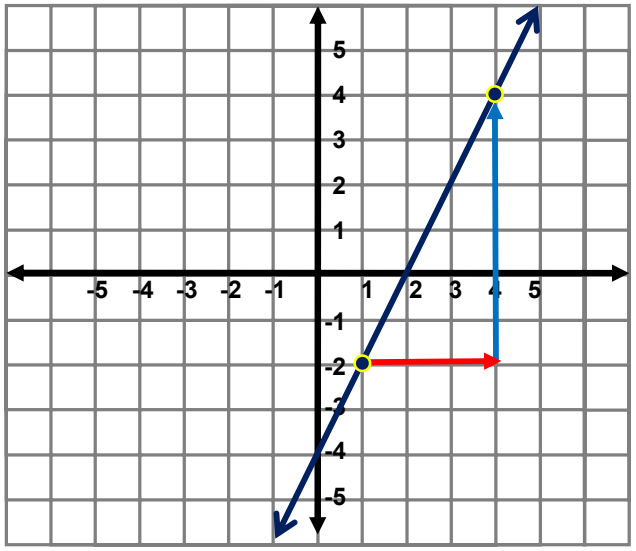
Graph the function

17) $y = 3x - 2$



SLOPE OF A LINE

Graph the function



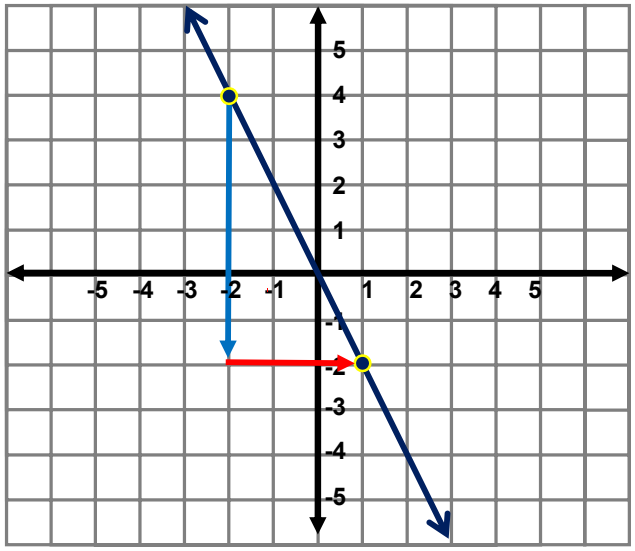
Rise = _____

Run = _____

Slope = _____

y-int = _____

SLOPE OF A LINE



Rise = _____

Run = _____

Slope = _____

y-int = _____