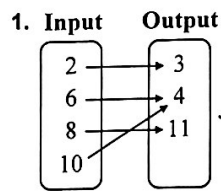
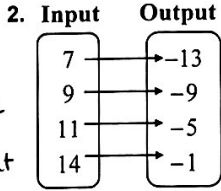


Review 6.1-6.3

List the ordered pairs shown in the mapping diagram. Then determine whether the relation is a function.



yes, b/c there is one output for every input



yes b/c there is only one output for every input

- Answers
- $\{(2,3), (6,4), (8,11), (10,4)\}$
 - $\{(7,-13), (9,-9), (11,-5), (14,-1)\}$

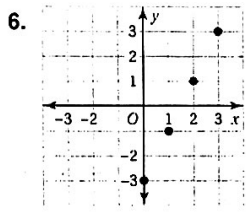
Find the value of y for the given value of x .

- $y = \frac{1}{2}x; x = -18$
- $y = -4x + 6; x = 1$
- Write an equation that describes the function shown by the table.

Input, x	1	2	3	4
Output, y	-5	-10	-15	-20

- $y = -9$
- $y = 2$
- $y = -5x$

Use the graph or table to write a linear function that relates y to x .



7.

x	-2	0	2	4
y	5	4	3	2

- $y = 2x - 3$
- $y = -\frac{1}{2}x + 4$

- The table shows the amount of gasoline g (in gallons) left in your tank after you travel m miles.
 - Write a linear function that relates the amount of gasoline to the traveling distance.
 - How many gallons of gasoline are left after you drive 120 miles?

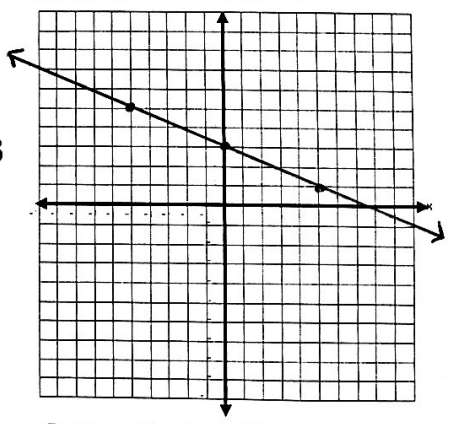
Miles, m	Gallons, g
0	20
20	19
40	18
60	17

- $y = -\frac{1}{20}x + 20$
 - 14 gallons

9. Graph the equation: $y = -\frac{2}{5}x + 3$

Slope: $-\frac{2}{5}$

y-intercept: 3



- You are packing candles in boxes. You can fit 15 candles in each box.
 - Write a function that represents the number of candles that you pack into x boxes.
 - How many boxes do you need to pack 75 candles?

- $y = \frac{x}{15}$
 - 5 boxes