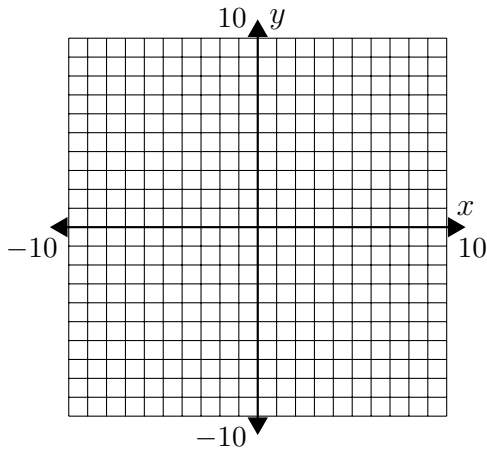


Graphing Worksheet 10

Complete the table and graph the points in the given coordinate plane. Then graph the line.

1. $y = -x$

x	y
-4	
-2	
0	
2	
4	



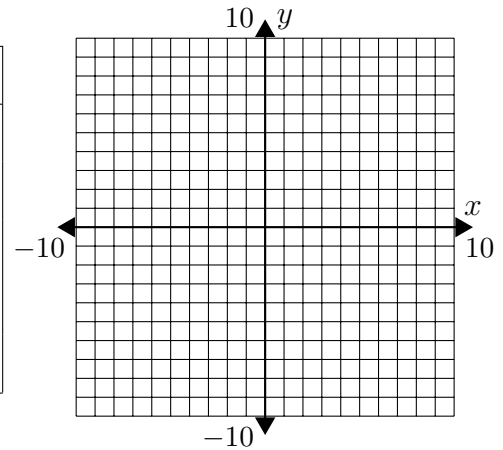
What is the change between the y -values?

What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

2. $y = 3x$

x	y
-6	
-3	
0	
3	
6	



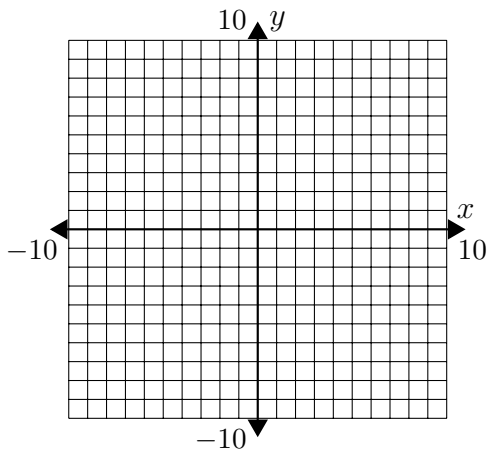
What is the change between the y -values?

What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

3. $y = \frac{1}{3}x$

x	y
-6	
-3	
0	
3	
6	



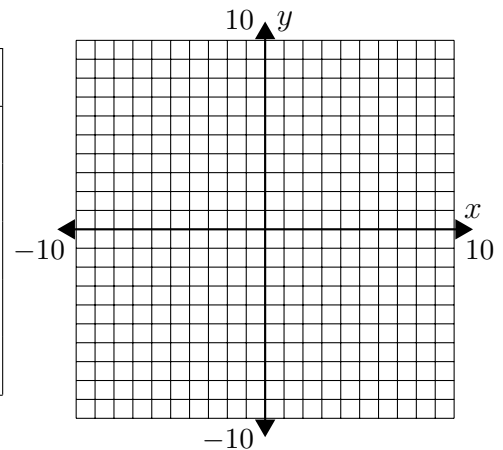
What is the change between the y -values?

What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

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

x	y
-4	
-2	
0	
2	
4	

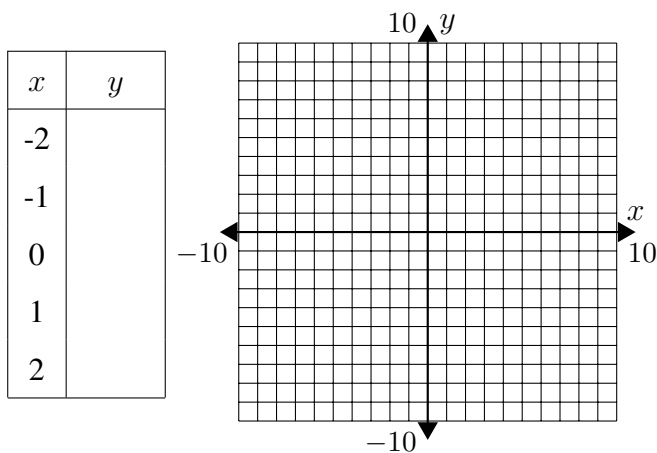


What is the change between the y -values?

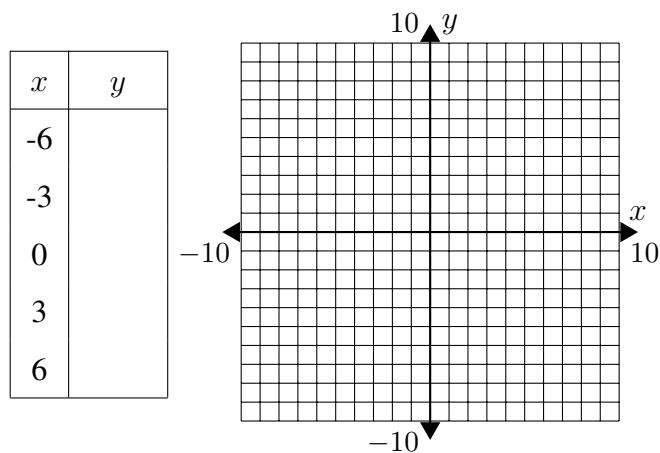
What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

5. $y = 4x + 2$



6. $y = \frac{2}{3}x - 2$



What is the change between the y -values?

What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

What is the change between the y -values?

What is the change between the x -values?

Write your above answers as a fraction $\left(\frac{y}{x}\right)$:

7. Write a sentence that describes the connection between the equations above and your answers to the questions about the fractions $\left(\frac{y}{x}\right)$.

8. Write a sentence that describes the connection between the lines you graphed and your answers to the questions about the fractions $\left(\frac{y}{x}\right)$.

9. State the direction that the graphs of each of these equations moves. (Write your answers as a $\frac{y}{x}$ fraction.)

(a) $y = \frac{1}{3}x + 6$

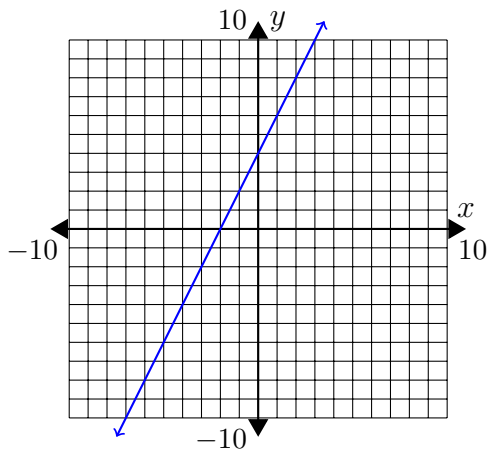
(b) $y = 3x - 1$

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

(d) $y = 5x - 3$

10. Finish the equation for each graph:

(a) $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$



(b) $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

