

7.6 Extra Practice

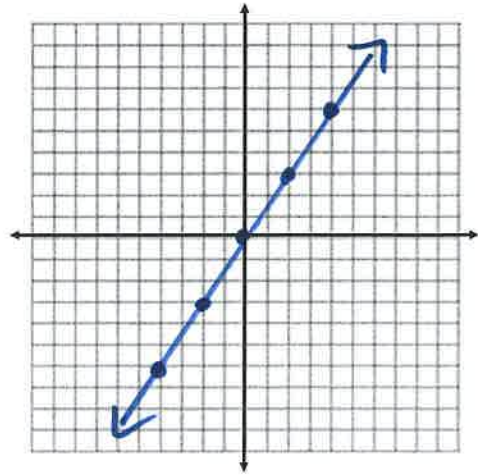
I can decide whether a relationship is proportional from a graph AND I can find the constant of proportionality from a graph AND I can explain what a point on the graph of proportional relationship means in terms of the situation. Show all your work on this paper.

The variable x and y vary directly. Use the variable to write an equation and graph the solutions.

1) $y = 3; x = 2$

x	y
-4	-6
-2	-3
0	0
2	3
4	6

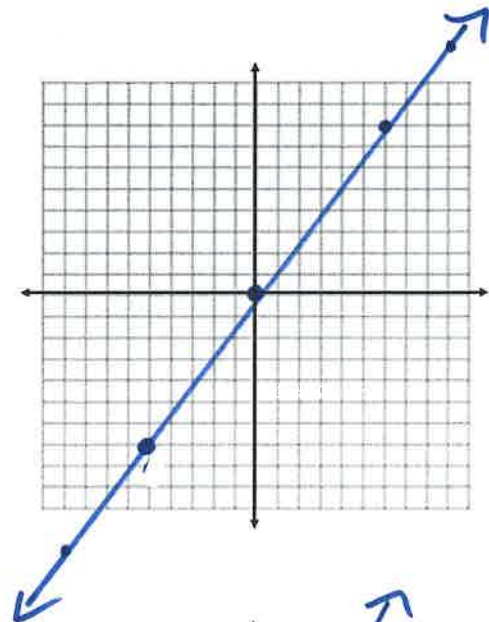
$$y = 1.5x$$



2) $y = 28; x = 21$

x	y
-9	-12
-6	-8
0	0
6	8
9	12

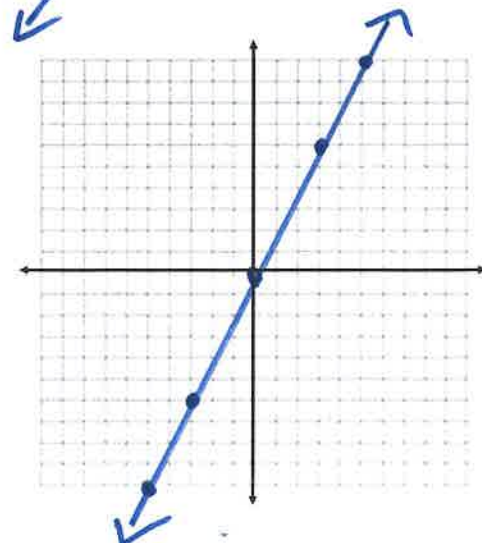
$$y = \frac{4}{3}x$$



3) $y = 10, x = 5$

x	y
-5	-10
-3	-6
0	0
3	6
5	10

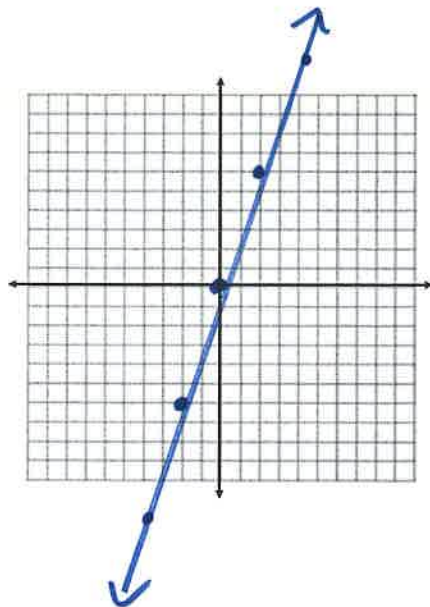
$$y = 2x$$



4) $y = 27, x = 9$

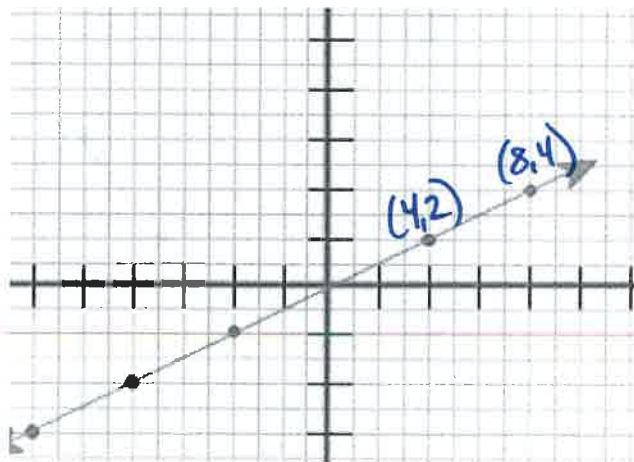
x	y
-4	-12
-2	-6
0	0
2	6
4	12

$$y = 3x$$



Write an equation. (Hint: use one of the points given (x/y) to find the constant (k). Then use that constant to write an equation for the graph.

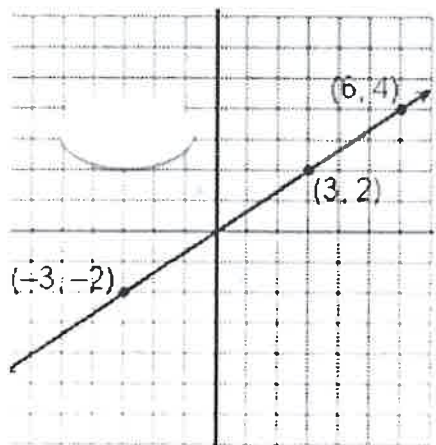
5)



x	y
4	2
8	4

$$y = \frac{1}{2}x$$

6)



x	y
-3	-2
3	2
6	4

$$y = \frac{2}{3}x$$