

Graphs of Proportional Relationships

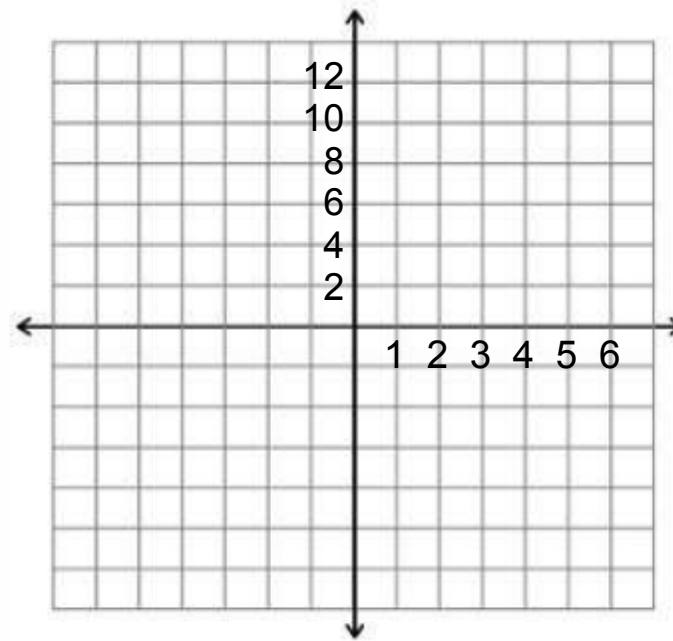
Today's Learning Targets:

5.14 - I can explain why an equation in the form $y=mx$ is a special form of slope-intercept and how it is unique on the graph.

5.15 - I can graph a proportional relationship on the coordinate plane.

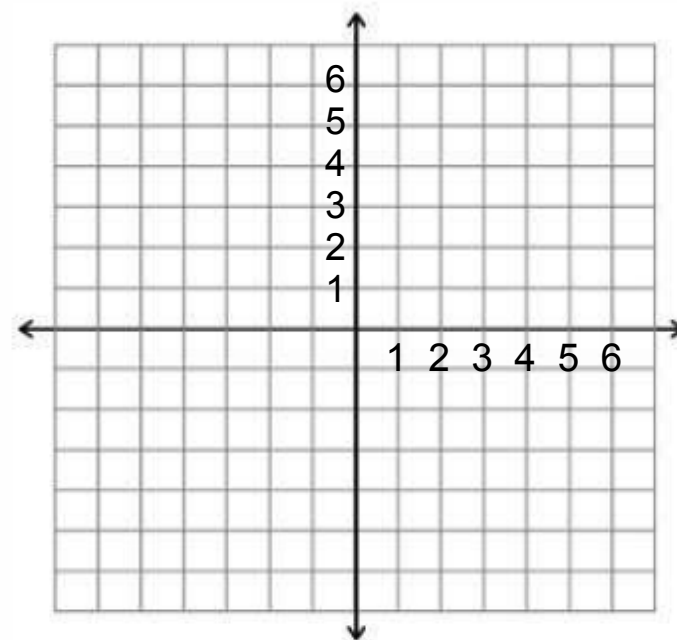
$$y = 5.50x$$

x	y
2	
1	
0	
-1	
-2	



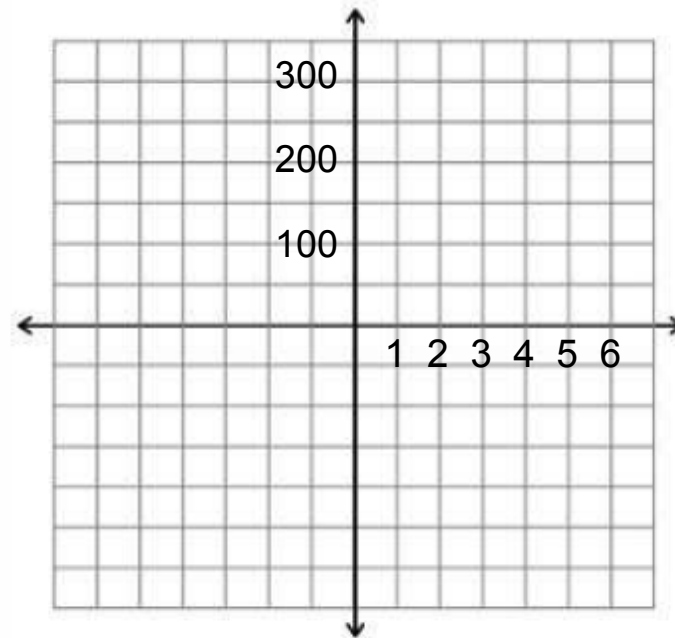
$$y = 3x$$

Table
or
 $y = mx + b$?



Find the unit rate, write an equation, and graph the relationship.

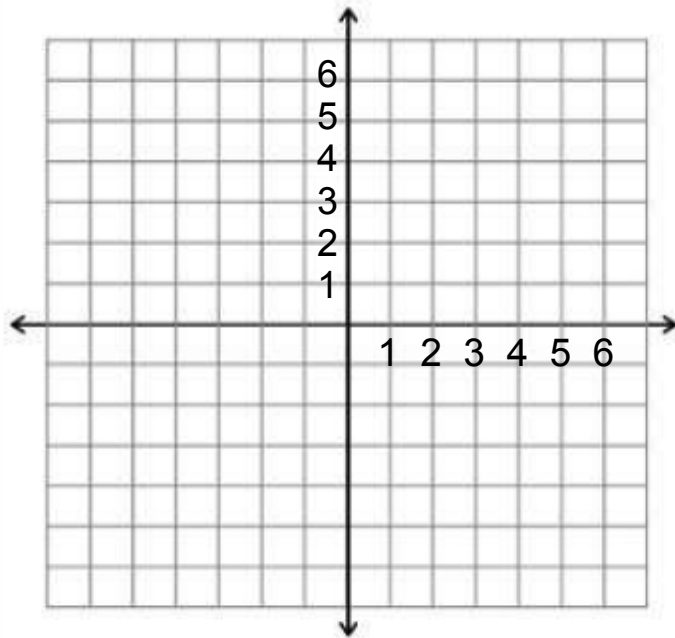
A car drives 300 miles in 6 hours.



Determine if the equation represents a proportional relationship, then graph the equation.

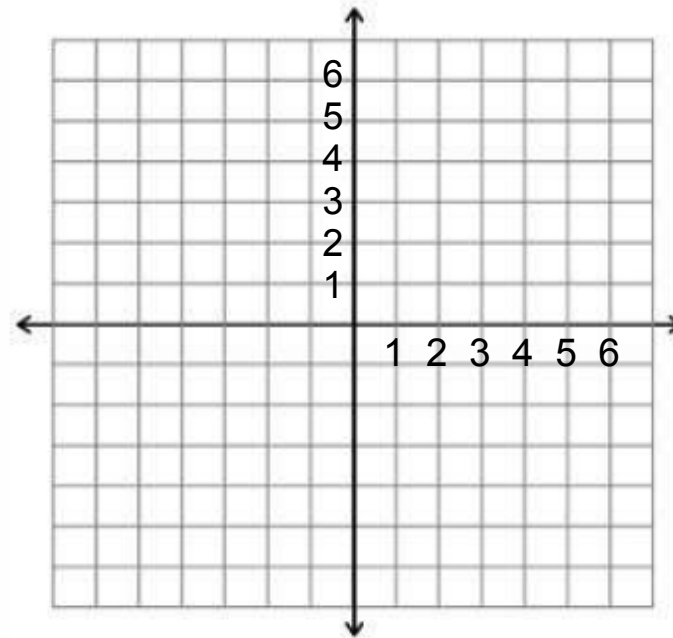
$$y = 4x - 1$$

proportional?



$$y = -2x$$

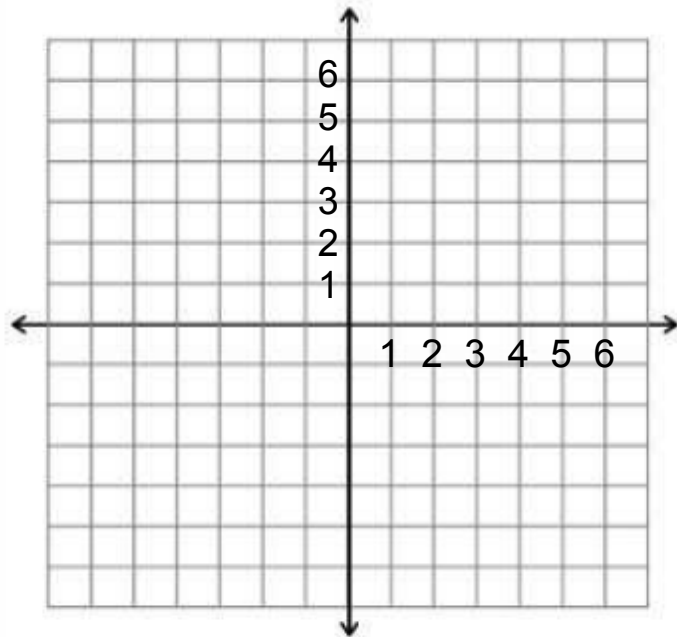
proportional?



Determine if the equation represents a proportional relationship, then graph the equation.

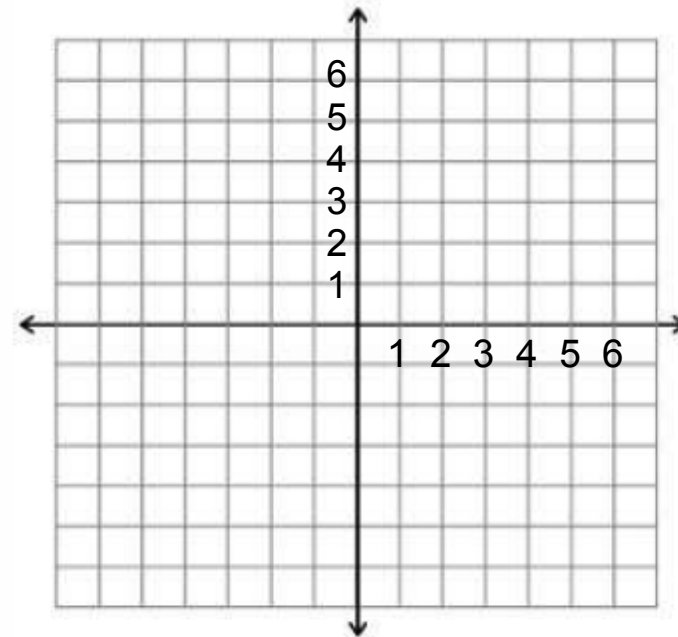
$$y = 4$$

proportional?



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

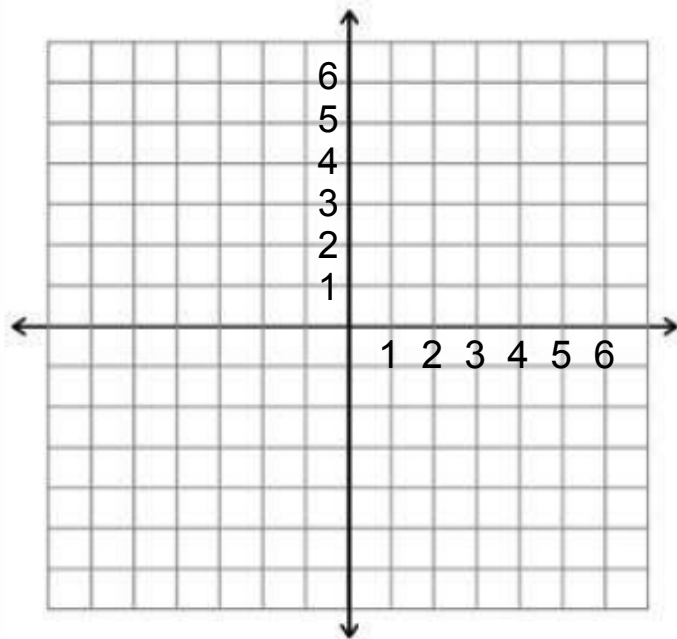
proportional?



Determine if the equation represents a proportional relationship, then graph the equation.

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

proportional?



$$y = -3x + 5$$

proportional?

