

## Writing Equations Given Slope and a Point

**Write the slope-intercept form of the equation of the line through the given point with the given slope. Show your work.**

1) through:  $(-1, 1)$ , slope = 4

2) through:  $(1, 5)$ , slope = 3

3) through:  $(2, -2)$ , slope =  $-\frac{5}{6}$

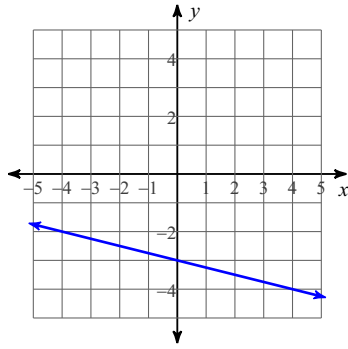
4) through:  $(-2, 3)$ , slope =  $-\frac{5}{7}$

5) through:  $(-1, -2)$ , slope =  $\frac{3}{2}$

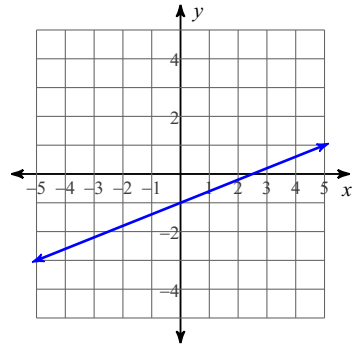
6) through:  $(-2, 3)$ , slope =  $-1$

Write the slope-intercept form of the equation of each line.

7)

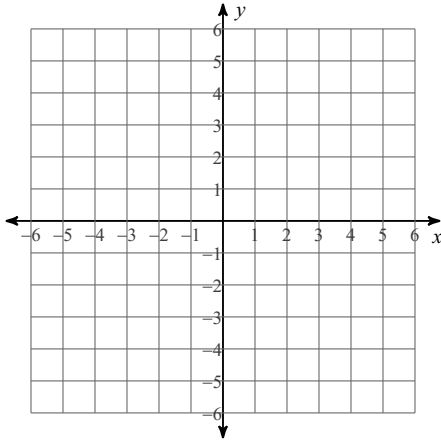


8)

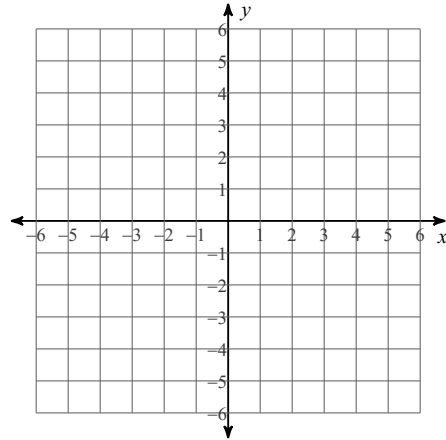


Sketch the graph of each line.

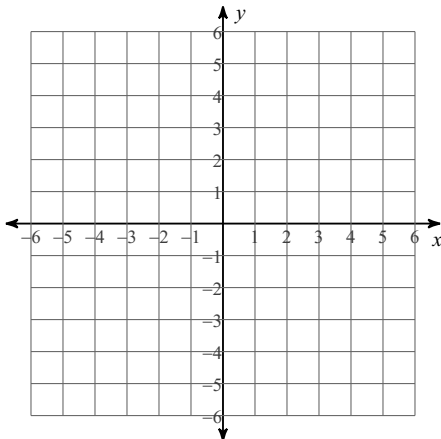
9)  $y = \frac{9}{2}x - 4$



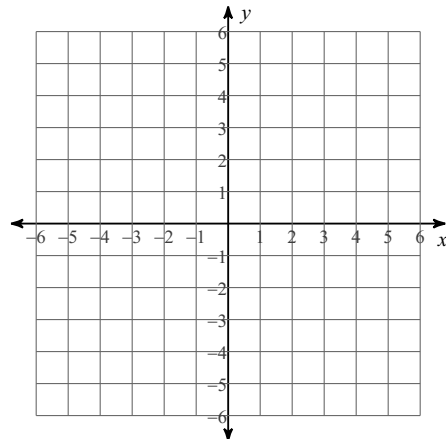
10)  $y = -\frac{2}{5}x + 2$



11)  $y = \frac{2}{3}x - 1$



12)  $y = -\frac{7}{3}x + 2$



## Answers to Writing Equations Given Slope and a Point

1)  $y = 4x + 5$

2)  $y = 3x + 2$

3)  $y = -\frac{5}{6}x - \frac{1}{3}$

4)  $y = -\frac{5}{7}x + \frac{11}{7}$

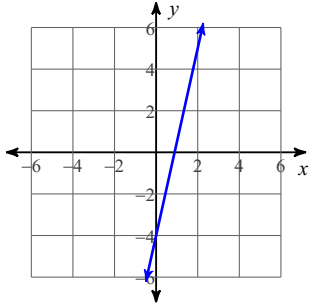
5)  $y = \frac{3}{2}x - \frac{1}{2}$

6)  $y = -x + 1$

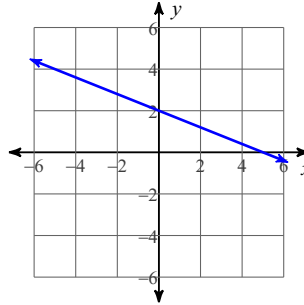
7)  $y = -\frac{1}{4}x - 3$

8)  $y = \frac{2}{5}x - 1$

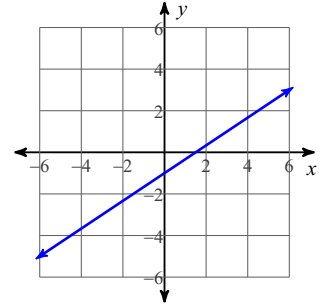
9)



10)



11)



12)

