

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 = $-\frac{5}{6}$

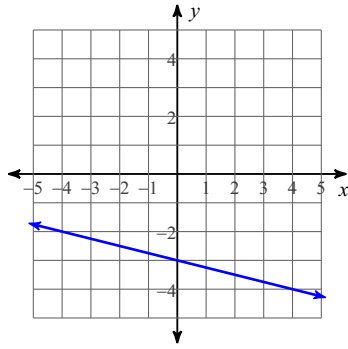
4) through: $(-2, 3)$, slope = $-\frac{5}{7}$

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

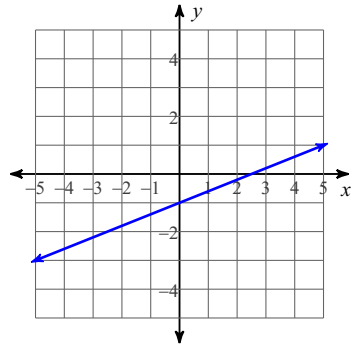
6) through: $(-2, 3)$, slope = -1

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

7)

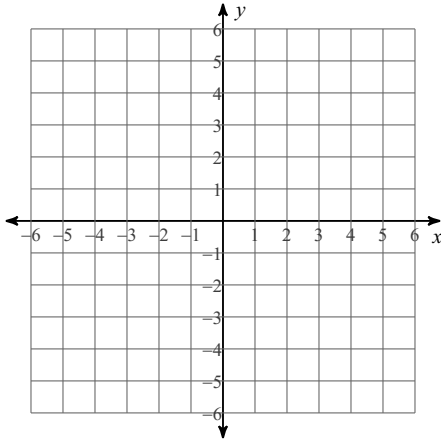


8)

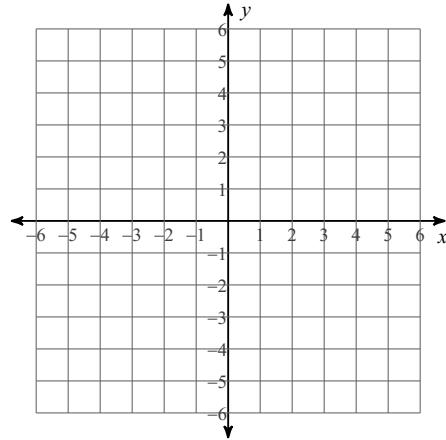


Sketch the graph of each line.

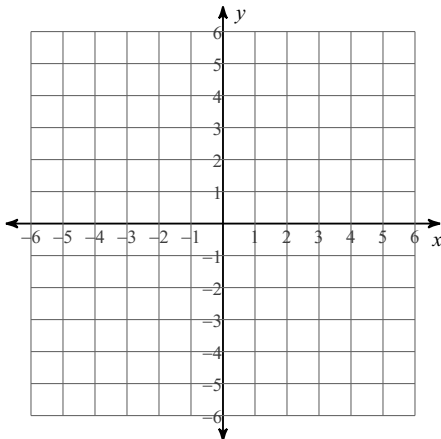
9) $y = \frac{9}{2}x - 4$



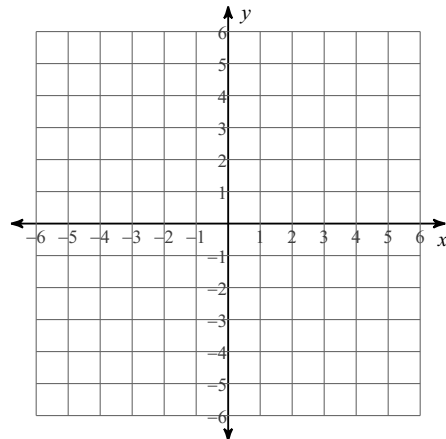
10) $y = -\frac{2}{5}x + 2$



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

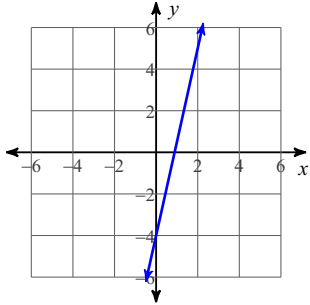
5) $y = \frac{3}{2}x - \frac{1}{2}$

6) $y = -x + 1$

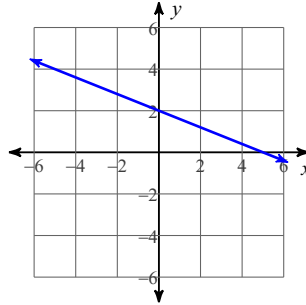
7) $y = -\frac{1}{4}x - 3$

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

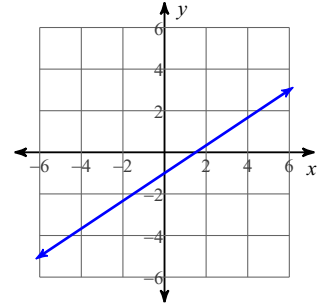
9)



10)



11)



12)

