Algebra 1 Name_____

Point-Slope Form

Date_____ Period____

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

1) $y + 1 = \frac{5}{3}(x + 3)$

2) $y = -\frac{5}{4}(x + 4)$

3) $y + 4 = -9(x - 1)$

4) $y - 2 = \frac{1}{2}(x + 4)$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

5) through: $(-3, 0)$, slope = $\frac{2}{3}$

6) through: $(-1, -4)$, slope = 7

7) through: $(-2, -5)$, slope = -5

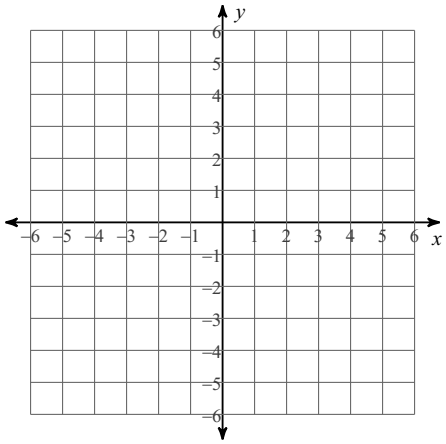
8) through: $(1, 3)$, slope = 1

9) through: $(3, -3)$, slope = -3

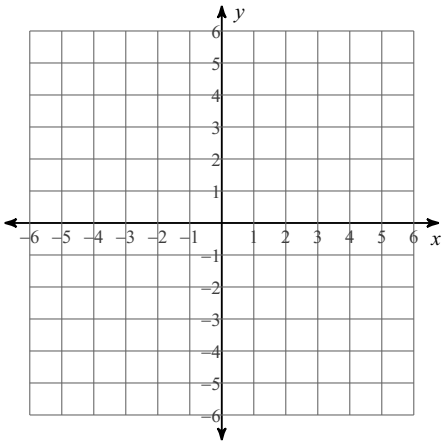
10) through: $(3, -5)$, slope = -2

Sketch the graph of each line.

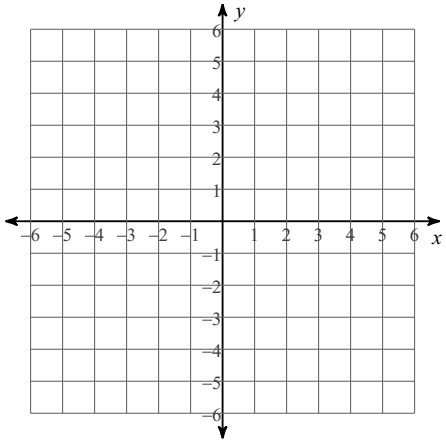
11) $y = x + 1$



12) $y = \frac{4}{5}x - 2$



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



14) $y = -x - 5$