

Linear Equations and Slope

Date _____ Period _____

Find the slope of the line through each pair of points.

1) $(-15, -3), (9, -2)$

2) $(-19, 16), (2, 16)$

3) $(-15, 8), (-1, -10)$

4) $(-7, 1), (-7, -20)$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = $-\frac{7}{2}$, y-intercept = -4

6) Slope = $-\frac{7}{4}$, y-intercept = 2

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

7) $4x + 9y = -25$

8) $9x + 2y = -2$

9) $x - 6y = 42$

10) $x + 2y = 0$

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

11) through: $(-5, -2)$, slope = 0

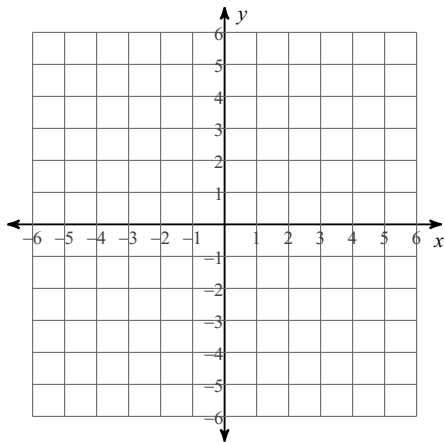
12) through: $(-4, 4)$, slope = $-\frac{5}{4}$

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

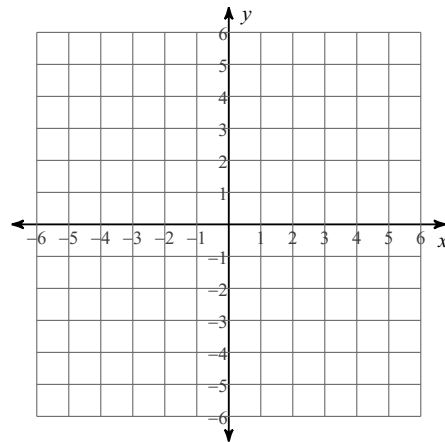
14) through: $(5, -4)$, slope = $-\frac{2}{5}$

Sketch the graph of each line.

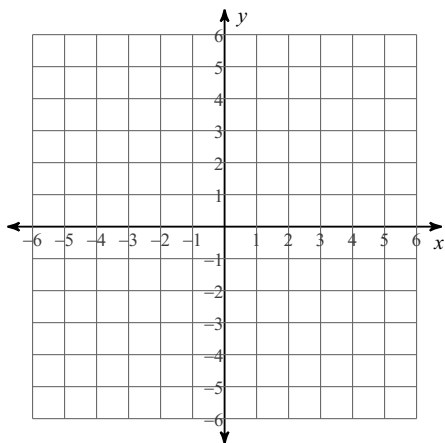
15) $y + 2 = 0$



16) $2 - y = 0$



17) $-1 = -2x - y$



18) $-2y + 4 = x$

