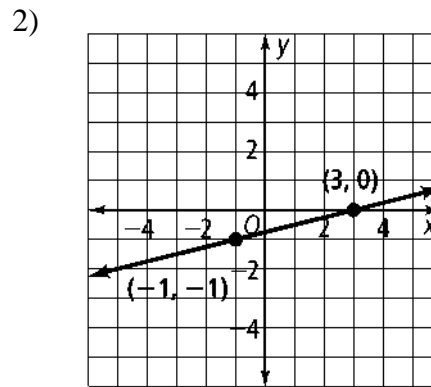
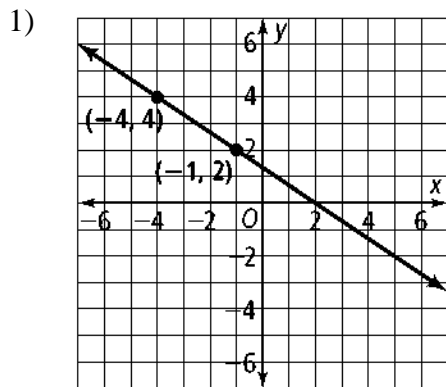


3.6 – Finding the Slope and Equation of a Line

Find the slope of the line passing through the given points.



3) $(2, 3), (-1, -6)$

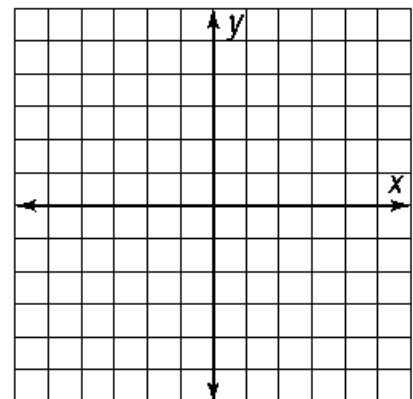
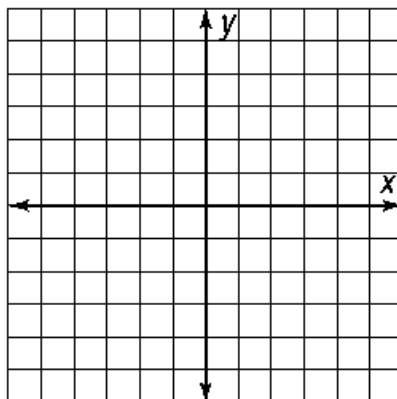
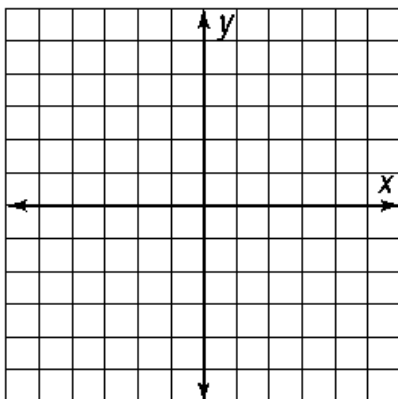
4) $(2, 9), (4, -7)$

Graph the following lines.

5) $y = 3x - 4$

6) $y - 2 = (x + 3)$

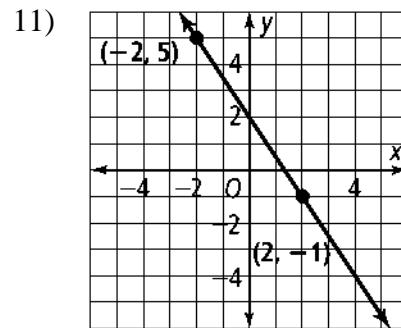
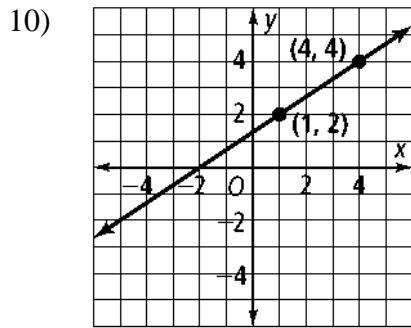
7) $y + 2 = -4(x + 3)$



For #8-13, use the given information to write an equation for each line.

8) slope 6, y-intercept 4

9) slope $-\frac{1}{3}$, y-intercept -2



12) slope -5 , passes through $(2, -3)$

13) slope $\frac{3}{4}$, passes through $(-8, 2)$

14) through $(-2, 0)$ and $(3, 10)$

15) through $(10, 2)$ and $(2, -2)$

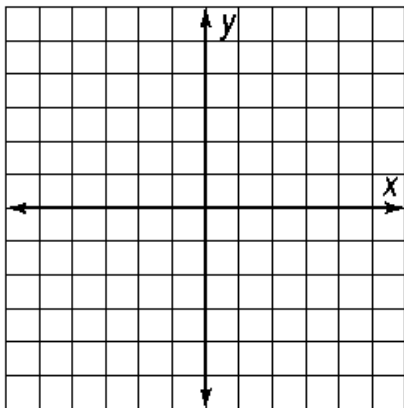
Write each equation in slope-intercept form.

16) $y - 3 = 4(x + 2)$

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

Graph each pair of lines. Then find their point of intersection.

18) $y = -5, x = -2$



19) $y = 6, x = -1$

