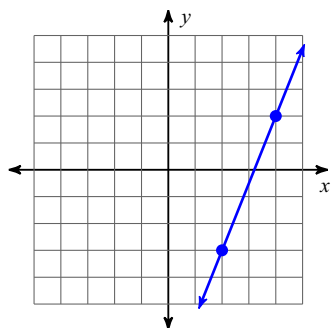


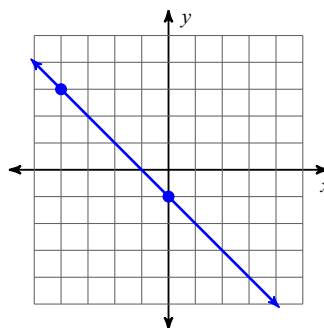
Final Exam Review

Find the slope of each line.

1)



2)



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

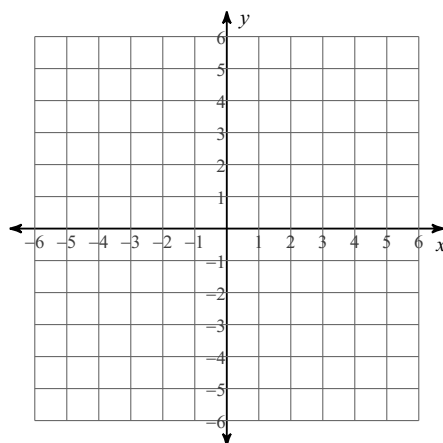
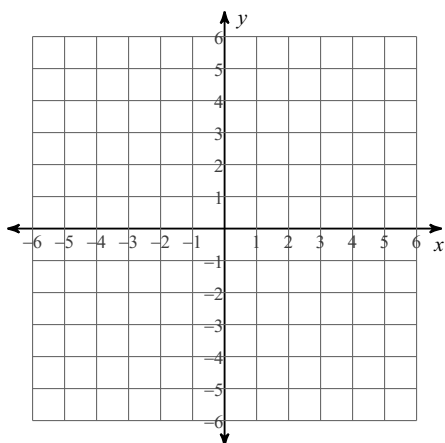
3) $(3, -2), (-14, 8)$

4) $(1, 4), (-8, 4)$

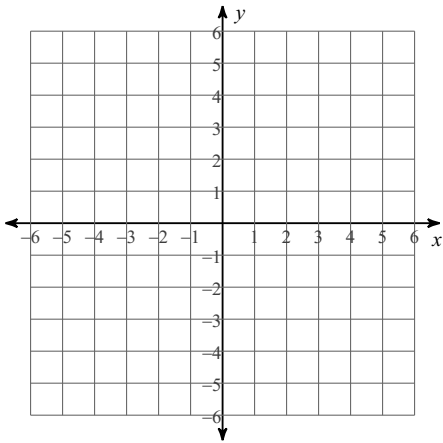
Sketch the graph of each line.

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

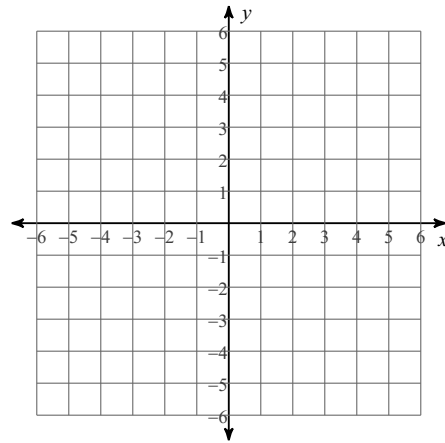
6) $y = \frac{5}{3}x + 2$



7) $5x + 4y = -20$

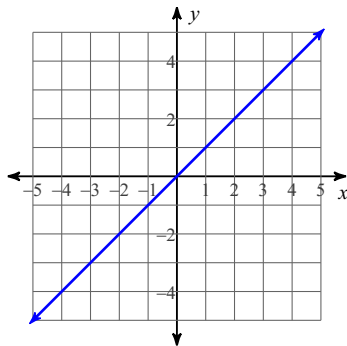


8) $3x + y = -4$

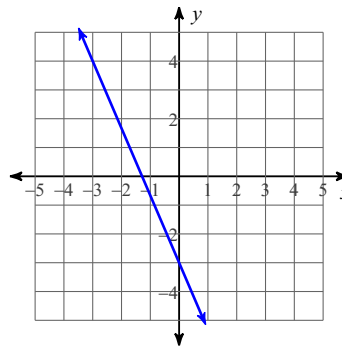


Write the slope-intercept form of the equation of each line.

9)



10)



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

11) Slope = $-\frac{1}{3}$, y-intercept = 3

12) Slope = $\frac{1}{5}$, y-intercept = -1

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

13) $14x + 3y = 18$

14) $10x - y = -5$

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

15) through: $(2, -5)$, slope = -4

16) through: $(5, -4)$, slope = -3

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

17) through: $(5, -5)$ and $(0, 2)$

18) through: $(-4, -3)$ and $(0, 3)$

Simplify each expression.

19) $7k + 6k$

20) $3x + 6 + 2 + 9x$

21) $-(4m + 9)$

22) $3(r - 6)$

23) $6n + 4(5n + 5)$

24) $7(-p - 2) - 10p$

25) $-5m(1 - m) + 8(4m - 3)$

26) $-2(10n - 5) + 7n(-9n + 4)$

Solve each equation.

27) $14 - x = -1$

28) $-4 = \frac{a}{16}$

29) $9 + \frac{k}{3} = 7$

30) $15 = -2a + 5$

$$31) \frac{k+5}{5} = 3$$

$$32) -10 = -8 + \frac{v}{8}$$

$$33) 2x - 5x = 3$$

$$34) 1 = 8b + 1 + 2b$$

$$35) 201 = 3(-8a + 3)$$

$$36) -6(8 + x) - 7 = -97$$

$$37) -4n - 4n + 4 = -6n - n$$

$$38) 8 - 5r = -7 - 5r + 5r$$

$$39) -30 = -(8 - 8v) - (2 - 2v)$$

$$40) -5(-2x + 1) + 8(3 - x) = 35$$

$$41) -(2r - 2) - (6r - 1) = 4 - 8r$$

$$42) -4(x + 4) = -4 + 2(x - 3)$$