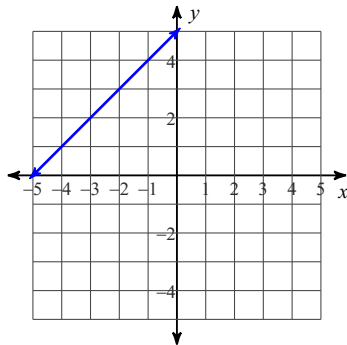


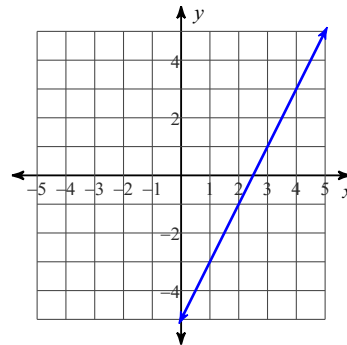
Writing the Equation of a Line Practice (3.5)

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

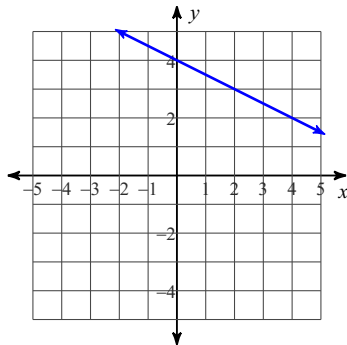
1)



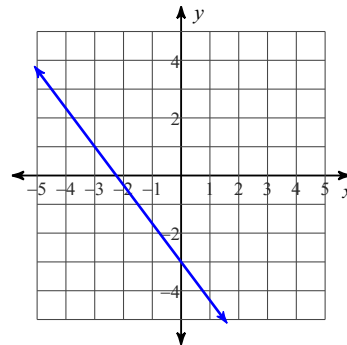
2)



3)



4)



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

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

6) Slope = $-\frac{4}{3}$, y-intercept = 3

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

7) $6x - 7y = -56$

8) $5x + y = 4$

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

10) $y + 3 = -5(x + 1)$

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

11) through: $(0, 1)$, slope = -3

12) through: $(3, 2)$, slope = 1

13) through: $(2, 3)$, slope = $\frac{7}{2}$

14) through: $(1, 0)$, slope = -1

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

15) through: $(0, -5)$ and $(-3, 1)$

16) through: $(0, -4)$ and $(5, 3)$

17) through: $(5, 4)$ and $(1, -4)$

18) through: $(-3, 2)$ and $(1, -2)$

19) through: $(-3, 1)$ and $(3, 5)$

20) through: $(-2, 3)$ and $(2, -4)$

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

21) through: $(-3, -5)$, parallel to $y = x - 1$

22) through: $(2, -2)$, parallel to $y = -\frac{7}{2}x - 3$

23) through: $(-1, 1)$, parallel to $y = -3x + 4$

24) through: $(5, 4)$, parallel to $y = 6x + 4$

25) through: $(4, -5)$, perp. to $y = x + 5$

26) through: $(3, -5)$, perp. to $y = \frac{3}{2}x$

27) through: $(2, -3)$, perp. to $y = \frac{1}{2}x + 4$

28) through: $(4, -1)$, perp. to $y = \frac{4}{3}x + 5$

29) through: $(-2, -4)$ parallel to $x = 3$

30) through: $(-2, -4)$ perpendicular to $x = 3$