

Review Practice

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

1) Slope = -2 , y-intercept = -1

2) Slope = $-\frac{1}{2}$, y-intercept = -2

3) Slope = 1 , y-intercept = 2

4) Slope = $-\frac{1}{2}$, y-intercept = -1

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

5) $2x - y = -8$

6) $11x + 2y = 14$

7) $6x - y = -8$

8) $12x + 11y = 19$

9) $y - 1 = -2(x - 2)$

10) $y + 1 = -\frac{3}{2}(x + 2)$

11) $y + 5 = 5(x + 2)$

12) $y + 4 = 0$

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

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

14) through: $(0, -5)$ and $(-5, -3)$

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

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

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

17) through: $(-2, 1)$, slope = $\frac{1}{2}$

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

19) through: $(3, 3)$, slope = $\frac{8}{3}$

20) through: $(-4, 2)$, slope = $-\frac{1}{4}$

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

21) through: $(-4, 4)$, parallel to $y = -\frac{1}{2}x + 2$

22) through: $(-5, 0)$, parallel to $y = -x + 3$

23) through: $(4, 3)$, parallel to $y = 2x + 1$

24) through: $(0, 2)$, parallel to $y = -1$

25) through: $(5, 5)$, perp. to $y = -\frac{5}{6}x + 2$

26) through: $(-2, -3)$, perp. to $y = 2x - 1$

27) through: $(-5, -1)$, perp. to $y = -5x$

28) through: $(-5, 0)$, perp. to $y = \frac{5}{2}x - 3$

Answers to Review Practice

1) $y = -2x - 1$

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

3) $y = x + 2$

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

5) $y = 2x + 8$

6) $y = -\frac{11}{2}x + 7$

7) $y = 6x + 8$

8) $y = -\frac{12}{11}x + \frac{19}{11}$

9) $y = -2x + 5$

10) $y = -\frac{3}{2}x - 4$

11) $y = 5x + 5$

12) $y = -4$

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

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

15) $y = -\frac{5}{8}x + \frac{15}{8}$

16) $y = 0$

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

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

19) $y = \frac{8}{3}x - 5$

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

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

22) $y = -x - 5$

23) $y = 2x - 5$

24) $y = 2$

25) $y = \frac{6}{5}x - 1$

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

27) $y = \frac{1}{5}x$

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