

Writing slope-intercept equations

Date _____ Period _____

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

1) through: $(-5, -5)$, slope = 0

2) through: $(-1, 4)$, slope = -2

3) through: $(2, -5)$, slope = -1

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

5) through: $(-3, 5)$, slope = -2

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

7) through: $(2, -4)$, slope = $-\frac{3}{7}$

8) through: $(4, 3)$, slope = $\frac{3}{4}$

9) through: $(4, -3)$, slope = $-\frac{5}{4}$

10) through: $(5, -5)$, slope = $-\frac{6}{5}$

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

11) through: $(-1, 1)$ and $(-5, -1)$

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

13) through: $(1, 0)$ and $(0, 3)$

14) through: $(0, -4)$ and $(1, 2)$

15) through: $(4, 5)$ and $(2, -1)$

16) through: $(0, -5)$ and $(2, 1)$

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

18) through: $(4, -4)$ and $(-3, -5)$

19) through: $(1, 3)$ and $(-5, 4)$

20) through: $(-1, 2)$ and $(1, 5)$

21) through: $(0, 1)$ and $(-4, 3)$

22) through: $(0, -1)$ and $(-5, 2)$

23) through: $(1, 1)$ and $(-2, 5)$

24) through: $(2, 0)$ and $(0, 4)$

25) through: $(-3, 2)$ and $(-2, 2)$

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

27) through: $(-4, 2)$ and $(4, -4)$

28) through: $(0, -2)$ and $(-2, 4)$

29) through: $(4, 3)$ and $(-4, -4)$

30) through: $(0, 2)$ and $(-4, 0)$

Writing slope-intercept equations

Date _____ Period _____

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

1) through: $(-5, -5)$, slope = 0

$$y = -5$$

3) through: $(2, -5)$, slope = -1

$$y = -x - 3$$

5) through: $(-3, 5)$, slope = -2

$$y = -2x - 1$$

7) through: $(2, -4)$, slope = $-\frac{3}{7}$ $y = -\frac{3}{7}x - \frac{22}{7}$

9) through: $(4, -3)$, slope = $-\frac{5}{4}$ $y = -\frac{5}{4}x + 2$

2) through: $(-1, 4)$, slope = -2

$$y = -2x + 2$$

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

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

8) through: $(4, 3)$, slope = $\frac{3}{4}$ $y = \frac{3}{4}x$

10) through: $(5, -5)$, slope = $-\frac{6}{5}$ $y = -\frac{6}{5}x + 1$

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

11) through: $(-1, 1)$ and $(-5, -1)$ $y = \frac{1}{2}x + \frac{3}{2}$

13) through: $(1, 0)$ and $(0, 3)$

$$y = -3x + 3$$

15) through: $(4, 5)$ and $(2, -1)$

$$y = 3x - 7$$

17) through: $(-4, -5)$ and $(4, 4)$ $y = \frac{9}{8}x - \frac{1}{2}$

19) through: $(1, 3)$ and $(-5, 4)$ $y = -\frac{1}{6}x + \frac{19}{6}$

21) through: $(0, 1)$ and $(-4, 3)$ $y = -\frac{1}{2}x + 1$

23) through: $(1, 1)$ and $(-2, 5)$ $y = -\frac{4}{3}x + \frac{7}{3}$

25) through: $(-3, 2)$ and $(-2, 2)$

$$y = 2$$

27) through: $(-4, 2)$ and $(4, -4)$ $y = -\frac{3}{4}x - 1$

29) through: $(4, 3)$ and $(-4, -4)$ $y = \frac{7}{8}x - \frac{1}{2}$

12) through: $(-3, 3)$ and $(4, -2)$ $y = -\frac{5}{7}x + \frac{6}{7}$

14) through: $(0, -4)$ and $(1, 2)$

$$y = 6x - 4$$

16) through: $(0, -5)$ and $(2, 1)$

$$y = 3x - 5$$

18) through: $(4, -4)$ and $(-3, -5)$ $y = \frac{1}{7}x - \frac{32}{7}$

20) through: $(-1, 2)$ and $(1, 5)$ $y = \frac{3}{2}x + \frac{7}{2}$

22) through: $(0, -1)$ and $(-5, 2)$ $y = -\frac{3}{5}x - 1$

24) through: $(2, 0)$ and $(0, 4)$

$$y = -2x + 4$$

26) through: $(0, -3)$ and $(4, 3)$ $y = \frac{3}{2}x - 3$

28) through: $(0, -2)$ and $(-2, 4)$

$$y = -3x - 2$$

30) through: $(0, 2)$ and $(-4, 0)$ $y = \frac{1}{2}x + 2$