

Assignment

Date _____ Period _____

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

1) through: $(-3, 1)$, parallel to $y = -2x - 3$

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

3) through: $(4, 2)$, parallel to $y = -\frac{3}{4}x + 3$

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

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

6) through: $(5, -2)$, parallel to $y = \frac{2}{5}x + 1$

7) through: $(1, -5)$, parallel to $y = -6x - 2$

8) through: $(-2, -4)$, parallel to $y = -\frac{8}{3}x - 3$

9) through: $(1, 3)$, parallel to $y = 3x + 3$

10) through: $(5, -1)$, parallel to $y = -\frac{2}{5}x - 1$

11) through: $(-3, 5)$, parallel to $y = 2$

12) through: $(-1, 2)$, parallel to $y = -5x - 4$

13) through: $(1, 0)$, parallel to $x = 0$

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

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

16) through: $(-3, 0)$, parallel to $y = -\frac{5}{3}x + 1$

17) through: $(-4, 2)$, parallel to $y = -\frac{1}{6}x + 4$

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

19) through: $(5, 4)$, parallel to $y = \frac{2}{5}x - 4$

20) through: $(-3, 2)$, parallel to $y = -\frac{3}{8}x + 5$

21) through: $(0, 0)$, perp. to $y = -\frac{3}{5}x - 1$

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

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

24) through: $(-5, -4)$, perp. to $y = -\frac{3}{7}x - 2$

25) through: $(4, 2)$, perp. to $y = -x + 2$

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

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

28) through: $(0, 2)$, perp. to $y = -x + 2$

29) through: $(-5, 2)$, perp. to $y = \frac{5}{4}x - 5$

30) through: $(2, 5)$, perp. to $y = -\frac{3}{4}x + 5$

31) through: $(-2, -5)$, perp. to $y = -\frac{2}{7}x - 3$

32) through: $(5, -4)$, perp. to $y = \frac{5}{8}x - 4$

33) through: $(-3, 1)$, perp. to $y = 8x + 5$

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

35) through: $(4, 3)$, perp. to $y = -\frac{4}{7}x + 5$

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

37) through: $(5, -2)$, perp. to $y = -5x - 2$

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

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

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

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

1) through: $(-3, 1)$, parallel to $y = -2x - 3$
 $y = -2x - 5$

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

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

5) through: $(-2, 0)$, parallel to $y = \frac{5}{2}x - 3$ $y = \frac{5}{2}x + 5$ 6) through: $(5, -2)$, parallel to $y = \frac{2}{5}x + 1$ $y = \frac{2}{5}x - 4$

7) through: $(1, -5)$, parallel to $y = -6x - 2$
 $y = -6x + 1$

8) through: $(-2, -4)$, parallel to $y = -\frac{8}{3}x - 3$ $y = -\frac{8}{3}x - \frac{28}{3}$

9) through: $(1, 3)$, parallel to $y = 3x + 3$
 $y = 3x$

10) through: $(5, -1)$, parallel to $y = -\frac{2}{5}x - 1$ $y = -\frac{2}{5}x + 1$

11) through: $(-3, 5)$, parallel to $y = 2$
 $y = 5$

12) through: $(-1, 2)$, parallel to $y = -5x - 4$
 $y = -5x - 3$

13) through: $(1, 0)$, parallel to $x = 0$
 $x = 1$

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

15) through: $(1, -5)$, parallel to $y = 3x - 3$
 $y = 3x - 8$

16) through: $(-3, 0)$, parallel to $y = -\frac{5}{3}x + 1$ $y = -\frac{5}{3}x - 5$

17) through: $(-4, 2)$, parallel to $y = -\frac{1}{6}x + 4$ $y = -\frac{1}{6}x + \frac{4}{3}$ 18) through: $(2, -1)$, parallel to $y = -\frac{1}{2}x + 4$ $y = -\frac{1}{2}x$

19) through: $(5, 4)$, parallel to $y = \frac{2}{5}x - 4$ $y = \frac{2}{5}x + 2$ 20) through: $(-3, 2)$, parallel to $y = -\frac{3}{8}x + 5$ $y = -\frac{3}{8}x + \frac{7}{8}$

21) through: $(0, 0)$, perp. to $y = -\frac{3}{5}x - 1$ $y = \frac{5}{3}x$ 22) through: $(-1, 3)$, perp. to $y = \frac{1}{4}x - 5$

$y = -4x - 1$

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

24) through: $(-5, -4)$, perp. to $y = -\frac{3}{7}x - 2$ $y = \frac{7}{3}x + \frac{23}{3}$

$y = 3x - 2$

25) through: $(4, 2)$, perp. to $y = -x + 2$
 $y = x - 2$

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

27) through: $(3, -1)$, perp. to $y = \frac{1}{2}x$
 $y = -2x + 5$

28) through: $(0, 2)$, perp. to $y = -x + 2$
 $y = x + 2$

29) through: $(-5, 2)$, perp. to $y = \frac{5}{4}x - 5$ $y = -\frac{4}{5}x - 3$ 30) through: $(2, 5)$, perp. to $y = -\frac{3}{4}x + 5$ $y = \frac{4}{3}x + \frac{7}{3}$

31) through: $(-2, -5)$, perp. to $y = -\frac{2}{7}x - 3$ $y = \frac{7}{2}x + 3$ 32) through: $(5, -4)$, perp. to $y = \frac{5}{8}x - 4$ $y = -\frac{8}{5}x + 4$

33) through: $(-3, 1)$, perp. to $y = 8x + 5$ $y = -\frac{1}{8}x + \frac{5}{8}$ 34) through: $(-4, 4)$, perp. to $y = \frac{1}{2}x + 3$

$y = -2x - 4$

35) through: $(4, 3)$, perp. to $y = -\frac{4}{7}x + 5$ $y = \frac{7}{4}x - 4$ 36) through: $(4, 1)$, perp. to $y = -\frac{4}{3}x + 5$ $y = \frac{3}{4}x - 2$

37) through: $(5, -2)$, perp. to $y = -5x - 2$ $y = \frac{1}{5}x - 3$ 38) through: $(1, -4)$, perp. to $y = -\frac{2}{3}x + 4$ $y = \frac{3}{2}x - \frac{11}{2}$

39) through: $(4, 1)$, perp. to $y = \frac{4}{3}x - 3$ $y = -\frac{3}{4}x + 4$ 40) through: $(3, -5)$, perp. to $y = \frac{1}{3}x + 4$

$y = -3x + 4$