

Assignment

Date _____ Period _____

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

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

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

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

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

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

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

7) through: $(-1, 5)$, parallel to $y = -8x - 4$

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

9) through: $(-5, 1)$, parallel to $x = 0$

10) through: $(4, 3)$, parallel to $y = 2$

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

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

13) through: $(5, 3)$, parallel to $y = \frac{3}{5}x + 3$

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

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

16) through: $(3, -4)$, parallel to $y = -x + 5$

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

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

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

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

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

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

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

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

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

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

27) through: $(-1, -1)$, parallel to $y = 4x + 5$

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

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

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

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

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

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

34) through: $(-4, -2)$, parallel to $y = \frac{7}{4}x - 2$

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

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

37) through: $(-4, 0)$, parallel to $y = -5x - 4$

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

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

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

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

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

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

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

45) through: $(5, 0)$, perp. to $x = 0$

46) through: $(3, 0)$, perp. to $y = \frac{1}{2}x + 1$

47) through: $(3, -2)$, perp. to $x = 0$

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

49) through: $(-5, -1)$, perp. to $y = -x + 2$

50) through: $(-1, -3)$, perp. to $x = 0$

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

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

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

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

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

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

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

63) through: $(4, -1)$, perp. to $y = -7x + 5$

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

67) through: $(4, 3)$, perp. to $y = 4x - 3$

69) through: $(-4, -4)$, perp. to $y = -\frac{4}{9}x - 1$

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

73) through: $(-4, 3)$, perp. to $y = 4x + 2$

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

77) through: $(-3, -3)$, perp. to $y = 3x - 3$

79) through: $(2, -4)$, perp. to $y = 2x - 5$

54) through: $(5, 0)$, perp. to $y = x + 4$

56) through: $(2, 0)$, perp. to $y = x - 5$

58) through: $(1, -5)$, perp. to $y = \frac{1}{7}x - 5$

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

62) through: $(2, 0)$, perp. to $y = 2x + 3$

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

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

68) through: $(-4, 0)$, perp. to $y = -2x + 3$

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

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

74) through: $(5, 3)$, perp. to $y = -x + 4$

76) through: $(-3, -5)$, perp. to $y = \frac{2}{9}x - 3$

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

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

Assignment

Date _____ Period _____

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

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

$$y = -5x - 21$$

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

$$y = 2x + 4$$

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

$$y = 2x - 4$$

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

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

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

7) through: $(-1, 5)$, parallel to $y = -8x - 4$

$$y = -8x - 3$$

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

9) through: $(-5, 1)$, parallel to $x = 0$

$$x = -5$$

10) through: $(4, 3)$, parallel to $y = 2$

$$y = 3$$

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

$$y = 3x + 5$$

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

13) through: $(5, 3)$, parallel to $y = \frac{3}{5}x + 3$ $y = \frac{3}{5}x$

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

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

$$y = x + 1$$

16) through: $(3, -4)$, parallel to $y = -x + 5$

$$y = -x - 1$$

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

$$y = -x - 5$$

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

$$y = 3x - 10$$

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

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

21) through: $(-4, 2)$, parallel to $y = -\frac{1}{4}x - 5$ $y = -\frac{1}{4}x - 22$

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

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

$$y = x$$

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

25) through: $(4, 3)$, parallel to $y = \frac{5}{4}x + 2$ $y = \frac{5}{4}x - 22$

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

- 27) through: $(-1, -1)$, parallel to $y = 4x + 5$
 $y = 4x + 3$
- 28) through: $(5, -2)$, parallel to $y = \frac{3}{5}x + 2$ $y = \frac{3}{5}x - 5$
- 29) through: $(-2, -4)$, parallel to $y = 4x$
 $y = 4x + 4$
- 30) through: $(-1, 1)$, parallel to $y = -\frac{1}{4}x$ $y = -\frac{1}{4}x + \frac{3}{4}$
- 31) through: $(5, -5)$, parallel to $y = -2$
 $y = -5$
- 32) through: $(-2, 1)$, parallel to $y = -\frac{4}{3}x - 1$ $y = -\frac{4}{3}x - \frac{5}{3}$
- 33) through: $(5, 5)$, parallel to $y = \frac{2}{5}x - 2$ $y = \frac{2}{5}x + 3$
- 34) through: $(-4, -2)$, parallel to $y = \frac{7}{4}x - 2$ $y = \frac{7}{4}x + 5$
- 35) through: $(2, -1)$, parallel to $y = \frac{1}{2}x + 4$ $y = \frac{1}{2}x - 3$
- 36) through: $(4, 4)$, parallel to $y = -\frac{1}{4}x + 4$ $y = -\frac{1}{4}x + 5$
- 37) through: $(-4, 0)$, parallel to $y = -5x - 4$
 $y = -5x - 20$
- 38) through: $(5, 1)$, parallel to $y = -\frac{1}{5}x + 5$ $y = -\frac{1}{5}x + 2$
- 39) through: $(-3, 5)$, parallel to $y = -\frac{7}{2}x + 4$ $y = -\frac{7}{2}x + \frac{11}{2}$
- 40) through: $(2, 2)$, parallel to $y = \frac{3}{2}x - 4$ $y = \frac{3}{2}x - 1$
- 41) through: $(4, -4)$, perp. to $y = \frac{4}{5}x - 3$ $y = -\frac{5}{4}x + 4$
- 42) through: $(-4, 5)$, perp. to $y = \frac{2}{5}x + 4$ $y = -\frac{5}{2}x - 5$
- 43) through: $(-5, 2)$, perp. to $y = \frac{3}{5}x + 2$ $y = -\frac{5}{3}x - \frac{19}{3}$
- 44) through: $(1, 5)$, perp. to $y = -\frac{1}{2}x + 2$
 $y = 2x + 3$
- 45) through: $(5, 0)$, perp. to $x = 0$
 $y = 0$
- 46) through: $(3, 0)$, perp. to $y = \frac{1}{2}x + 1$
 $y = -2x + 6$
- 47) through: $(3, -2)$, perp. to $x = 0$
 $y = -2$
- 48) through: $(-5, 2)$, perp. to $y = \frac{5}{7}x + 2$ $y = -\frac{7}{5}x - 5$
- 49) through: $(-5, -1)$, perp. to $y = -x + 2$
 $y = x + 4$
- 50) through: $(-1, -3)$, perp. to $x = 0$
 $y = -3$
- 51) through: $(3, -4)$, perp. to $y = \frac{3}{7}x + 2$ $y = -\frac{7}{3}x + 3$
- 52) through: $(2, -3)$, perp. to $y = \frac{2}{5}x - 5$ $y = -\frac{5}{2}x + 2$

- 53) through: $(5, -4)$, perp. to $y = \frac{5}{2}x - 5$ $y = -\frac{2}{5}x - 2$ 54) through: $(5, 0)$, perp. to $y = x + 4$
 $y = -x + 5$
- 55) through: $(3, 2)$, perp. to $y = -x$ $y = x - 1$ 56) through: $(2, 0)$, perp. to $y = x - 5$
 $y = -x + 2$
- 57) through: $(4, -5)$, perp. to $y = \frac{4}{7}x - 2$ $y = -\frac{7}{4}x + 2$ 58) through: $(1, -5)$, perp. to $y = \frac{1}{7}x - 5$
 $y = -7x + 2$
- 59) through: $(-5, -5)$, perp. to $y = -5x + 3$ $y = \frac{1}{5}x - 4$ 60) through: $(-3, -4)$, perp. to $y = -\frac{4}{5}x - 3$ $y = \frac{5}{4}x - \frac{1}{4}$
- 61) through: $(2, -5)$, perp. to $y = \frac{1}{5}x + 1$ $y = -5x + 5$ 62) through: $(2, 0)$, perp. to $y = 2x + 3$ $y = -\frac{1}{2}x + 1$
- 63) through: $(4, -1)$, perp. to $y = -7x + 5$ $y = \frac{1}{7}x - \frac{11}{7}$ 64) through: $(-1, 5)$, perp. to $y = \frac{1}{3}x + 2$
 $y = -3x + 2$
- 65) through: $(2, -2)$, perp. to $y = -x + 5$ $y = x - 4$ 66) through: $(-2, -1)$, perp. to $y = -\frac{2}{3}x + 4$ $y = \frac{3}{2}x + 2$
- 67) through: $(4, 3)$, perp. to $y = 4x - 3$ $y = -\frac{1}{4}x + 4$ 68) through: $(-4, 0)$, perp. to $y = -2x + 3$ $y = \frac{1}{2}x + 2$
- 69) through: $(-4, -4)$, perp. to $y = -\frac{4}{9}x - 1$ $y = \frac{9}{4}x + 7$ 70) through: $(3, 2)$, perp. to $y = -\frac{3}{2}x + 4$ $y = \frac{2}{3}x$
- 71) through: $(4, -3)$, perp. to $y = \frac{2}{3}x - 3$ $y = -\frac{3}{2}x + 3$ 72) through: $(-1, 0)$, perp. to $y = \frac{1}{4}x$
 $y = -4x - 4$
- 73) through: $(-4, 3)$, perp. to $y = 4x + 2$ $y = -\frac{1}{4}x + 2$ 74) through: $(5, 3)$, perp. to $y = -x + 4$
 $y = x - 2$
- 75) through: $(-5, 4)$, perp. to $y = \frac{5}{7}x - 3$ $y = -\frac{7}{5}x - 3$ 76) through: $(-3, -5)$, perp. to $y = \frac{2}{9}x - 3$ $y = -\frac{9}{2}x - \frac{37}{2}$
- 77) through: $(-3, -3)$, perp. to $y = 3x - 3$ $y = -\frac{1}{3}x - 4$ 78) through: $(3, -2)$, perp. to $y = \frac{3}{5}x - 2$ $y = -\frac{5}{3}x + 3$
- 79) through: $(2, -4)$, perp. to $y = 2x - 5$ $y = -\frac{1}{2}x - 3$ 80) through: $(-3, 2)$, perp. to $y = \frac{3}{5}x - 2$ $y = -\frac{5}{3}x - 3$