

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the slope of the line through each pair of points.**

1)  $(2, -4), (-2, -9)$

2)  $(-7, -17), (-6, 13)$

3)  $(3, 11), (3, -20)$

4)  $(-19, 8), (13, -1)$

5)  $(1, -17), (2, -4)$

6)  $(0, 2), (20, 8)$

7)  $(14, -13), (15, 18)$

8)  $(15, 8), (7, 14)$

9)  $(-15, 19), (-4, -2)$

10)  $(-5, 13), (-5, -11)$

11)  $(-4, 10), (6, -19)$

12)  $(4, -8), (13, -2)$

13)  $(-18, 2), (14, -11)$

14)  $(-11, -7), (14, 15)$

15)  $(11, -14), (3, -2)$

16)  $(-6, 12), (-14, 4)$

17)  $(-7, -17), (5, -15)$

18)  $(15, 12), (7, 17)$

19)  $(6, 15), (9, 4)$

20)  $(-14, -16), (-16, 16)$

21)  $(1, -3), (11, -18)$

22)  $(8, 5), (18, 13)$

23)  $(-20, -7), (-17, 5)$

24)  $(16, -12), (-19, -19)$

25)  $(11, 11), (4, -15)$

26)  $(6, 10), (13, 10)$

27)  $(12, -8), (-15, -8)$

28)  $(12, 10), (14, -10)$

29)  $(-1, 14), (11, 19)$

30)  $(0, 18), (0, -14)$

31)  $(-17, 9), (18, -20)$

32)  $(-12, -19), (1, 14)$

33)  $(-7, 4), (17, 3)$

34)  $(-12, -4), (-6, -15)$

35)  $(5, -8), (4, 6)$

36)  $(-8, -15), (19, -9)$

37)  $(-6, -14), (6, 5)$

38)  $(0, -10), (7, 10)$

39)  $(5, -15), (-6, 2)$

40)  $(17, 20), (12, -8)$

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

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

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

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

44) through:  $(-1, 2)$ , slope =  $\frac{3}{4}$

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

46) through:  $(-1, -1)$ , slope = -3

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

48) through:  $(0, 0)$ , slope =  $\frac{1}{4}$

49) through:  $(5, 2)$ , slope =  $\frac{1}{5}$

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

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

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

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

54) through:  $(-2, 3)$ , slope =  $\frac{1}{2}$

55) through:  $(1, 3)$ , slope = 3

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

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

58) through:  $(0, 3)$ , slope = 3

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

60) through:  $(-4, 5)$ , slope = -2

61) through:  $(4, 3)$ , slope = 2

62) through:  $(3, 2)$ , slope =  $-\frac{1}{2}$

63) through:  $(-4, 4)$ , slope =  $-5$

64) through:  $(5, 4)$ , slope =  $\frac{6}{5}$

65) through:  $(-2, 0)$ , slope =  $\frac{1}{2}$

66) through:  $(5, -2)$ , slope =  $\frac{1}{3}$

67) through:  $(-1, 5)$ , slope =  $\frac{1}{4}$

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

69) through:  $(-1, -4)$ , slope =  $6$

70) through:  $(-2, 0)$ , slope =  $-\frac{1}{2}$

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

72) through:  $(-1, 5)$ , slope =  $\frac{3}{2}$

73) through:  $(2, 0)$ , slope =  $\frac{4}{3}$

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

75) through:  $(-2, -3)$ , slope =  $0$

76) through:  $(4, 5)$ , slope =  $\frac{2}{3}$

77) through:  $(0, 2)$ , slope =  $-\frac{7}{3}$

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

79) through:  $(3, -1)$ , slope =  $-\frac{4}{3}$

80) through:  $(5, 4)$ , slope =  $\frac{1}{5}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the slope of the line through each pair of points.

1)  $(2, -4), (-2, -9)$   $\frac{5}{4}$

2)  $(-7, -17), (-6, 13)$

 $30$ 

3)  $(3, 11), (3, -20)$

Undefined

4)  $(-19, 8), (13, -1)$   $-\frac{9}{32}$

5)  $(1, -17), (2, -4)$

 $13$ 

6)  $(0, 2), (20, 8)$   $\frac{3}{10}$

7)  $(14, -13), (15, 18)$

 $31$ 

8)  $(15, 8), (7, 14)$   $-\frac{3}{4}$

9)  $(-15, 19), (-4, -2)$   $-\frac{21}{11}$

10)  $(-5, 13), (-5, -11)$

Undefined

11)  $(-4, 10), (6, -19)$   $-\frac{29}{10}$

12)  $(4, -8), (13, -2)$   $\frac{2}{3}$

13)  $(-18, 2), (14, -11)$   $-\frac{13}{32}$

14)  $(-11, -7), (14, 15)$   $\frac{22}{25}$

15)  $(11, -14), (3, -2)$   $-\frac{3}{2}$

16)  $(-6, 12), (-14, 4)$

 $1$ 

17)  $(-7, -17), (5, -15)$   $\frac{1}{6}$

18)  $(15, 12), (7, 17)$   $-\frac{5}{8}$

19)  $(6, 15), (9, 4)$   $-\frac{11}{3}$

20)  $(-14, -16), (-16, 16)$

 $-16$ 

21)  $(1, -3), (11, -18)$   $-\frac{3}{2}$

22)  $(8, 5), (18, 13)$   $\frac{4}{5}$

23)  $(-20, -7), (-17, 5)$

 $4$ 

24)  $(16, -12), (-19, -19)$   $\frac{1}{5}$

25)  $(11, 11), (4, -15)$   $\frac{26}{7}$

26)  $(6, 10), (13, 10)$

 $0$ 

27)  $(12, -8), (-15, -8)$

 $0$ 

28)  $(12, 10), (14, -10)$

 $-10$ 

29)  $(-1, 14), (11, 19)$   $\frac{5}{12}$

30)  $(0, 18), (0, -14)$

Undefined

31)  $(-17, 9), (18, -20)$   $-\frac{29}{35}$

32)  $(-12, -19), (1, 14)$   $\frac{33}{13}$

33)  $(-7, 4), (17, 3)$   $-\frac{1}{24}$

34)  $(-12, -4), (-6, -15)$   $-\frac{11}{6}$

$$35) (5, -8), (4, 6)$$

$$-14$$

$$37) (-6, -14), (6, 5) \frac{19}{12}$$

$$39) (5, -15), (-6, 2) -\frac{17}{11}$$

$$36) (-8, -15), (19, -9) \frac{2}{9}$$

$$38) (0, -10), (7, 10) \frac{20}{7}$$

$$40) (17, 20), (12, -8) \frac{28}{5}$$

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

$$41) \text{ through: } (1, -1), \text{ slope} = 4$$

$$y = 4x - 5$$

$$42) \text{ through: } (2, -2), \text{ slope} = \frac{1}{2} \quad y = \frac{1}{2}x - 3$$

$$43) \text{ through: } (3, -3), \text{ slope} = -\frac{5}{3} \quad y = -\frac{5}{3}x + 2$$

$$44) \text{ through: } (-1, 2), \text{ slope} = \frac{3}{4} \quad y = \frac{3}{4}x + \frac{11}{4}$$

$$45) \text{ through: } (4, 1), \text{ slope} = -\frac{1}{2} \quad y = -\frac{1}{2}x + 3$$

$$46) \text{ through: } (-1, -1), \text{ slope} = -3$$

$$y = -3x - 4$$

$$47) \text{ through: } (-4, 1), \text{ slope} = -\frac{1}{4} \quad y = -\frac{1}{4}x$$

$$48) \text{ through: } (0, 0), \text{ slope} = \frac{1}{4} \quad y = \frac{1}{4}x$$

$$49) \text{ through: } (5, 2), \text{ slope} = \frac{1}{5} \quad y = \frac{1}{5}x + 1$$

$$50) \text{ through: } (-2, 5), \text{ slope} = -2$$

$$y = -2x + 1$$

$$51) \text{ through: } (-2, -1), \text{ slope} = -\frac{1}{2} \quad y = -\frac{1}{2}x - 2$$

$$52) \text{ through: } (-5, 2), \text{ slope} = -1$$

$$y = -x - 3$$

$$53) \text{ through: } (5, 3), \text{ slope} = \frac{4}{5} \quad y = \frac{4}{5}x - 1$$

$$54) \text{ through: } (-2, 3), \text{ slope} = \frac{1}{2} \quad y = \frac{1}{2}x + 4$$

$$55) \text{ through: } (1, 3), \text{ slope} = 3$$

$$y = 3x$$

$$56) \text{ through: } (-1, -3), \text{ slope} = 5$$

$$y = 5x + 2$$

$$57) \text{ through: } (-2, -4), \text{ slope} = 4$$

$$y = 4x + 4$$

$$58) \text{ through: } (0, 3), \text{ slope} = 3$$

$$y = 3x + 3$$

$$59) \text{ through: } (-4, 4), \text{ slope} = -\frac{1}{4} \quad y = -\frac{1}{4}x + 3$$

$$60) \text{ through: } (-4, 5), \text{ slope} = -2$$

$$y = -2x - 3$$

$$61) \text{ through: } (4, 3), \text{ slope} = 2$$

$$y = 2x - 5$$

$$62) \text{ through: } (3, 2), \text{ slope} = -\frac{1}{2} \quad y = -\frac{1}{2}x + \frac{7}{2}$$

63) through:  $(-4, 4)$ , slope =  $-5$   
 $y = -5x - 16$

64) through:  $(5, 4)$ , slope =  $\frac{6}{5}$   $y = \frac{6}{5}x - 2$

65) through:  $(-2, 0)$ , slope =  $\frac{1}{2}$   $y = \frac{1}{2}x + 1$

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

67) through:  $(-1, 5)$ , slope =  $\frac{1}{4}$   $y = \frac{1}{4}x + \frac{21}{4}$

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

69) through:  $(-1, -4)$ , slope =  $6$   
 $y = 6x + 2$

70) through:  $(-2, 0)$ , slope =  $-\frac{1}{2}$   $y = -\frac{1}{2}x - 1$

71) through:  $(2, 1)$ , slope =  $-1$   
 $y = -x + 3$

72) through:  $(-1, 5)$ , slope =  $\frac{3}{2}$   $y = \frac{3}{2}x + \frac{13}{2}$

73) through:  $(2, 0)$ , slope =  $\frac{4}{3}$   $y = \frac{4}{3}x - \frac{8}{3}$

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

75) through:  $(-2, -3)$ , slope =  $0$   
 $y = -3$

76) through:  $(4, 5)$ , slope =  $\frac{2}{3}$   $y = \frac{2}{3}x + \frac{7}{3}$

77) through:  $(0, 2)$ , slope =  $-\frac{7}{3}$   $y = -\frac{7}{3}x + 2$

78) through:  $(0, -1)$ , slope =  $1$   
 $y = x - 1$

79) through:  $(3, -1)$ , slope =  $-\frac{4}{3}$   $y = -\frac{4}{3}x + 3$

80) through:  $(5, 4)$ , slope =  $\frac{1}{5}$   $y = \frac{1}{5}x + 3$