

Writing Equations of Lines Review for Quiz

Period _____

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

1) Slope = 5, y-intercept = -3

2) Slope = $-\frac{1}{3}$, y-intercept = 5

3) Slope = 0, y-intercept = 2

4) Slope = -1, y-intercept = 5

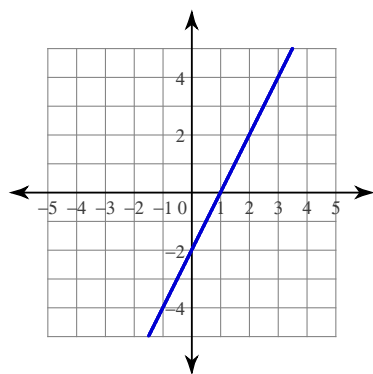
B. Write the point-slope form of the equation of the line through the given point with the given slope.

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

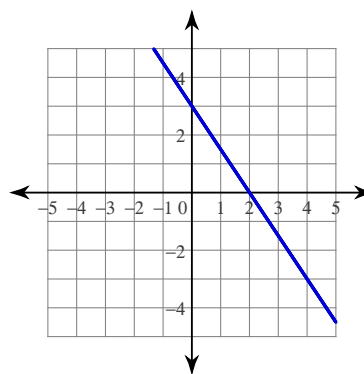
6) through: (-3, -2), slope = $-\frac{2}{3}$

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

7)



8)

**D. Write the point-slope form of the equation of the line through the given points.**

9) through: (-5, -5) and (1, -3)

10) through: (4, 3) and (1, 2)

E. Write the point-slope form of the equation of the line described.

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

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

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

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

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

15) $y - 5 = -10(x - 4)$

16) $y + 3 = \frac{5}{3}(x + 3)$

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

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

18) through: $(5, -1)$, slope = $\frac{2}{7}$

19) through: $(0, 2)$, slope = 0

20) through: $(-5, 1)$, slope = undefined

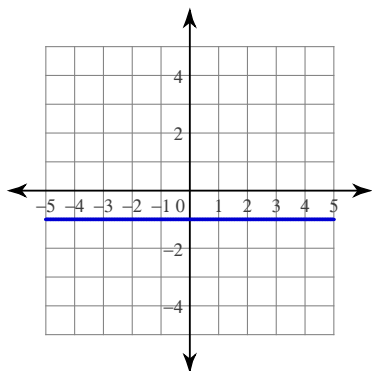
L. Write the slope-intercept form of the equation of the line through the given points.

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

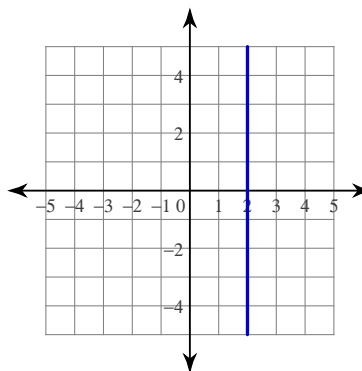
22) through: $(3, 5)$ and $(0, 1)$

M. Write the equation of each line.

23)



24)



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

25) through: $(1, -1)$, parallel to $y = -6x + 1$

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

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

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

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

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

30) Slope = $-\frac{1}{5}$, y-intercept = -4

V. Write the standard form of the equation of the line through the given point with the given slope.

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

32) through: $(1, 2)$, slope = 6

X. Write the standard form of the equation of the line through the given points.

33) through: $(0, -1)$ and $(1, -4)$

34) through: $(2, 4)$ and $(2, 1)$

Y. Write the standard form of the equation of the line described.

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

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

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

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

HORIZONTAL & VERTICAL LINES: Write the equation of the line through the given points.

39) through: $(-3, 4)$ and $(1, 4)$

40) through: $(2, 4)$ and $(2, 3)$

HORIZONTAL & VERTICAL LINES: Write the equation of the line.

41) through: $(-3, 3)$, parallel to $y = 0$

42) through: $(-4, 0)$, parallel to $x = 0$

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

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

Answers to Writing Equations of Lines Review for Quiz

1) $y = 5x - 3$

2) $y = -\frac{1}{3}x + 5$

3) $y = 2$

4) $y = -x + 5$

5) $y - 3 = \frac{4}{5}(x - 5)$

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

7) $y = 2x - 2$

8) $y = -\frac{3}{2}x + 3$

9) $y + 5 = \frac{1}{3}(x + 5)$

10) $y - 3 = \frac{1}{3}(x - 4)$

11) $y + 1 = x + 5$

12) $y + 5 = -\frac{5}{2}(x - 4)$

13) $y = \frac{5}{3}(x + 3)$

14) $y + 3 = \frac{2}{5}(x - 4)$

15) $y = -10x + 45$

16) $y = \frac{5}{3}x + 2$

17) $y = 2x - 12$

18) $y = \frac{2}{7}x - \frac{17}{7}$

19) $y = 2$

20) $x = -5$

21) $y = 3x - 12$

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

23) $y = -1$

24) $x = 2$

25) $y = -6x + 5$

26) $y = \frac{1}{2}x + 3$

27) $y = \frac{7}{2}x + 5$

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

29) $2x + y = -2$

30) $x + 5y = -20$

31) $7x + 4y = -12$

32) $6x - y = 4$

33) $3x + y = -1$

34) $x = 2$

35) $x + y = 0$

36) $x - y = 1$

37) $2x + y = 0$

38) $2x + 3y = 3$

39) $y = 4$

40) $x = 2$

41) $y = 3$

42) $x = -4$

43) $y = -2$

44) $x = -1$