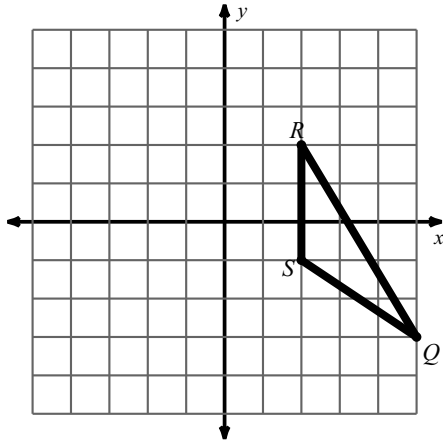


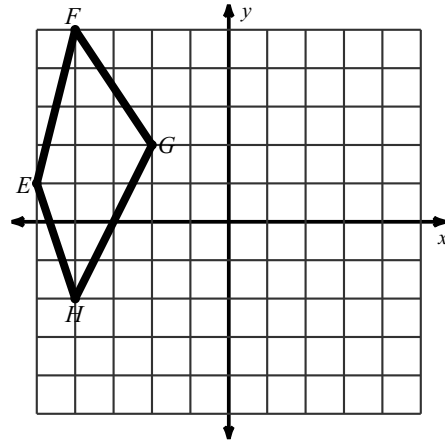
6.5 - Quiz 6 Review

Graph the image of the figure using the transformation given.

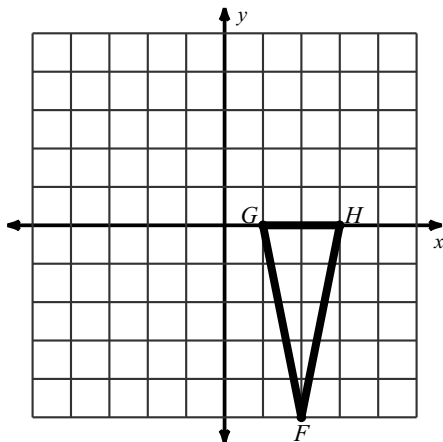
1) translation: 5 units left and 1 unit up



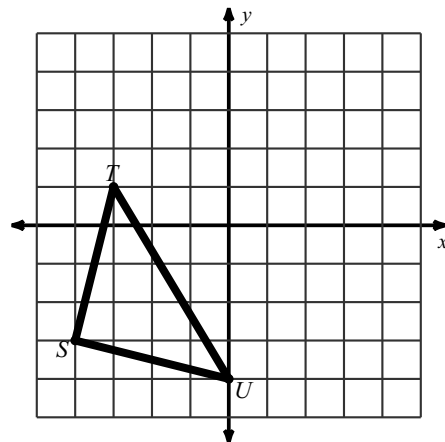
2) translation: 7 units right and 1 unit down



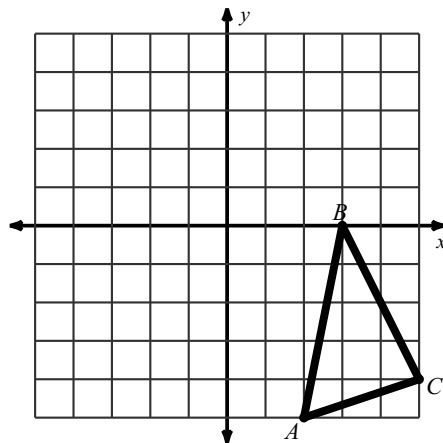
3) reflection across $y = x$



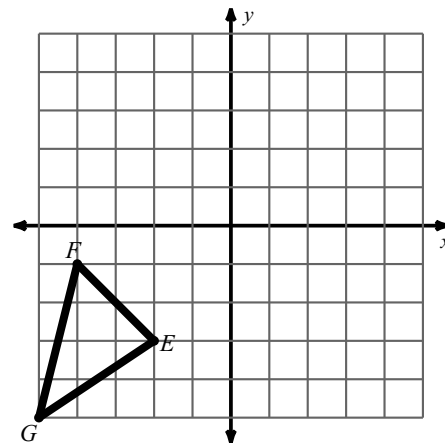
4) reflection across $y = -x$



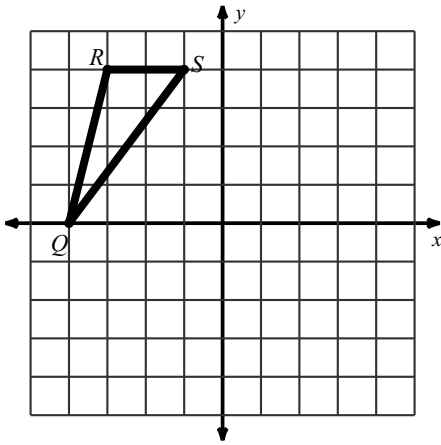
5) rotation 180° about the origin



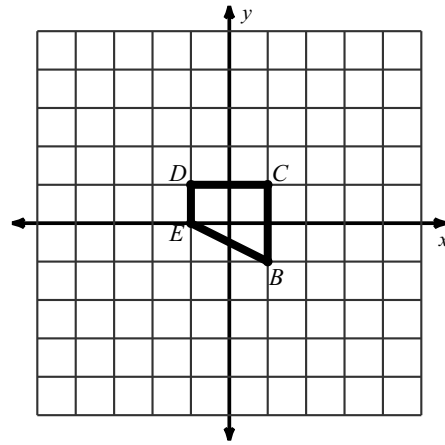
6) rotation 90° clockwise about the origin



7) dilation of 0.5

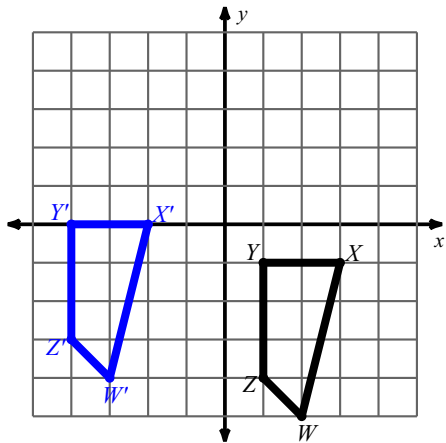


8) dilation of 5

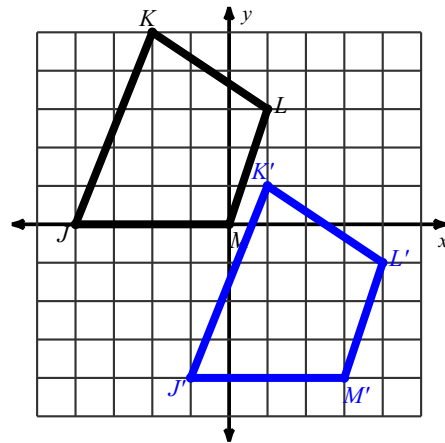


Write a rule to describe each transformation.

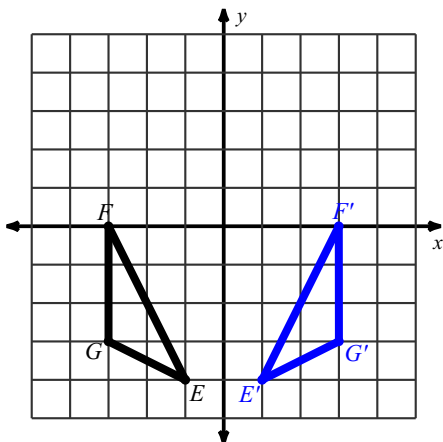
9)



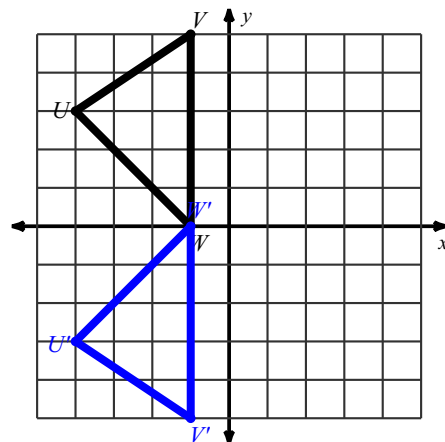
10)



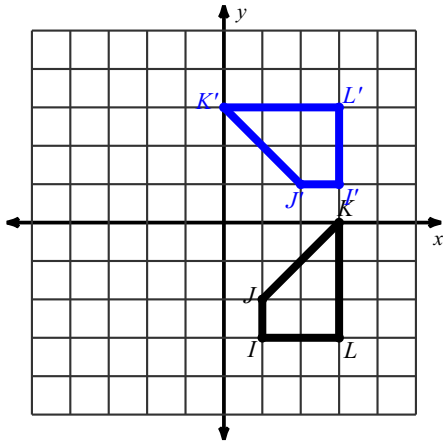
11)



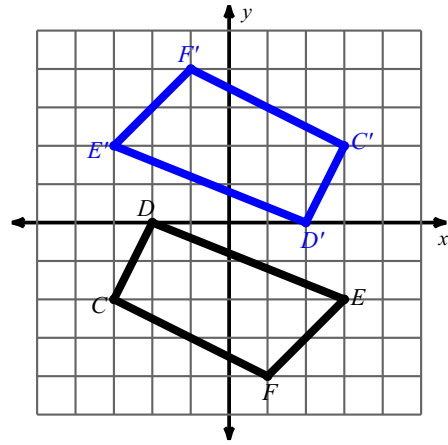
12)



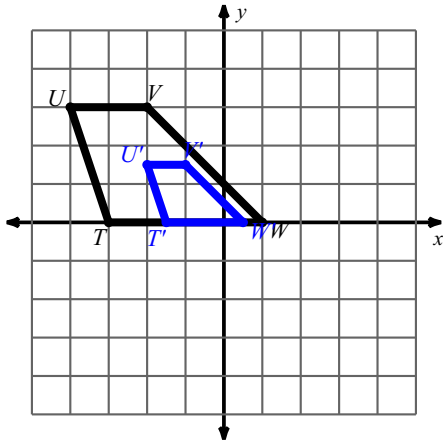
13)



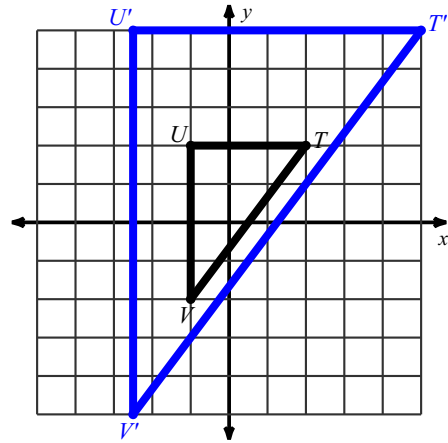
14)



15)

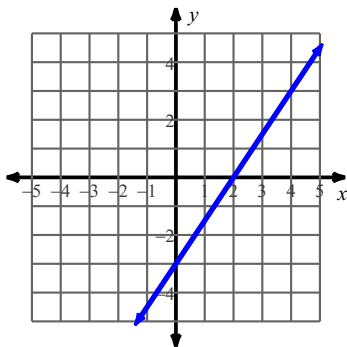


16)

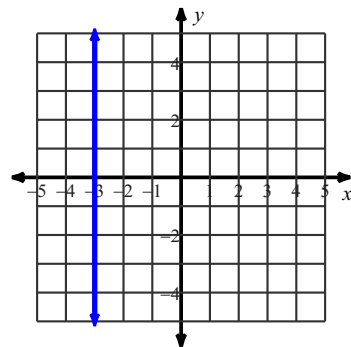


Write the slope-intercept form of the equation of each line.

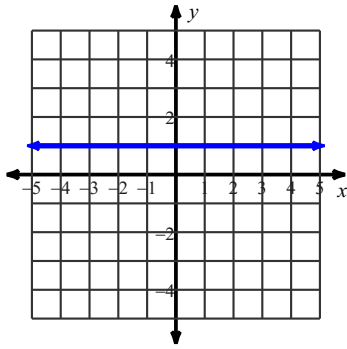
17)



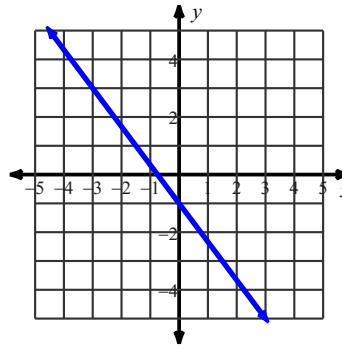
18)



19)



20)



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

21) through: $(3, 0)$, slope = $-\frac{1}{3}$

22) through: $(0, -4)$, slope = undefined

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

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

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

25) through: $(-2, 5)$ and $(-4, 3)$

26) through: $(3, 1)$ and $(4, 1)$

27) through: $(0, 4)$ and $(-3, -2)$

28) through: $(-5, -3)$ and $(-5, 1)$

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

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

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

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

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

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

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

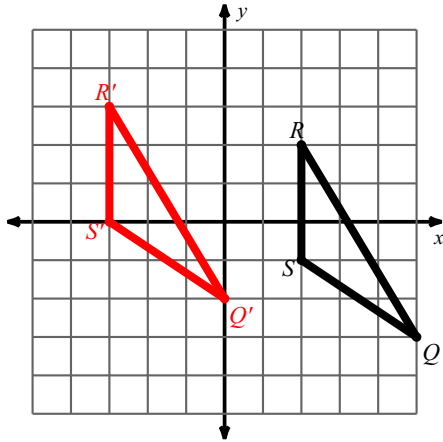
35) through: $(-2, -5)$, perp. to $x = 0$

36) through: $(1, 2)$, perp. to $y = -3$

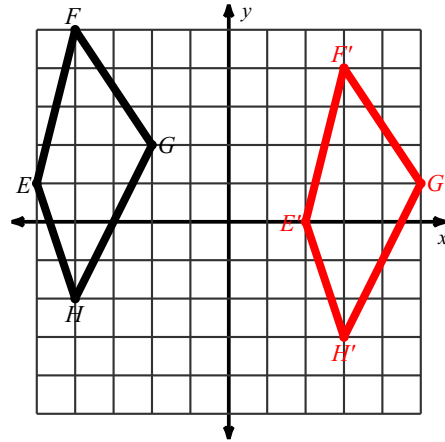
6.5 - Quiz 6 Review

Graph the image of the figure using the transformation given.

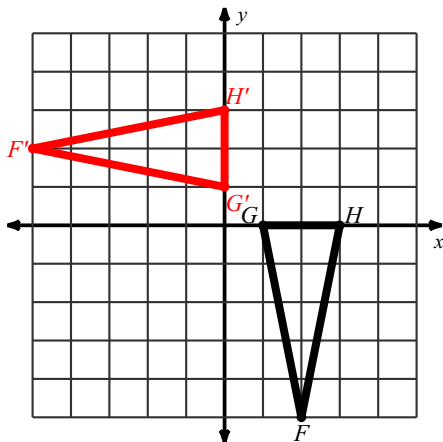
1) translation: 5 units left and 1 unit up



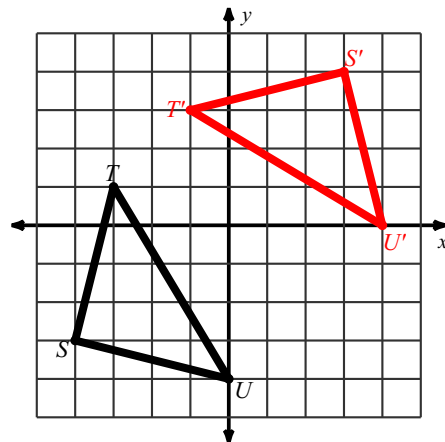
2) translation: 7 units right and 1 unit down



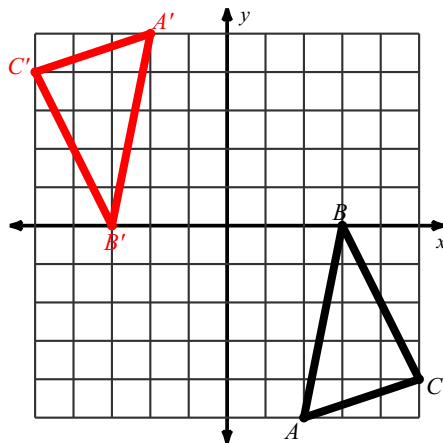
3) reflection across $y = x$



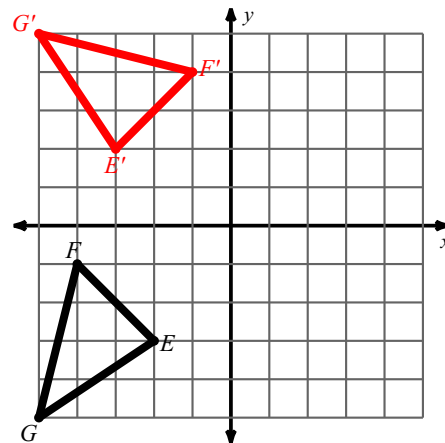
4) reflection across $y = -x$



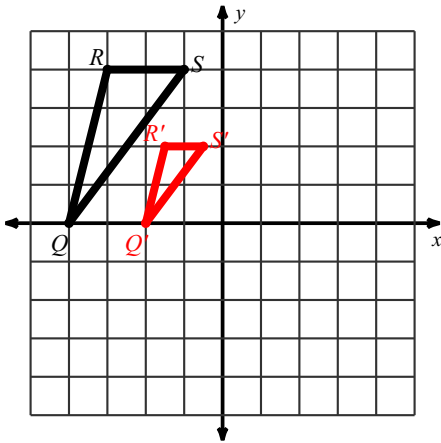
5) rotation 180° about the origin



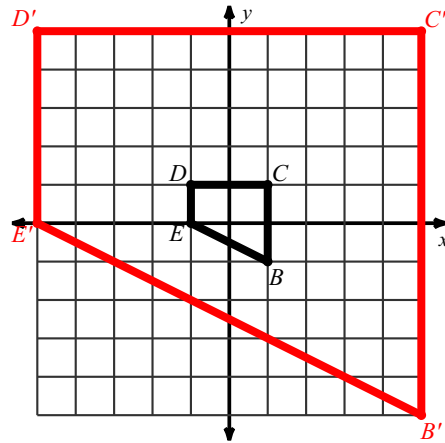
6) rotation 90° clockwise about the origin



7) dilation of 0.5

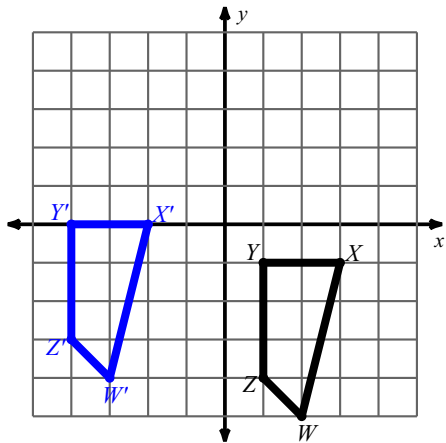


8) dilation of 5



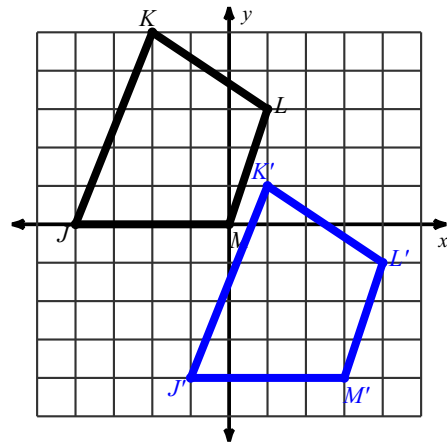
Write a rule to describe each transformation.

9)



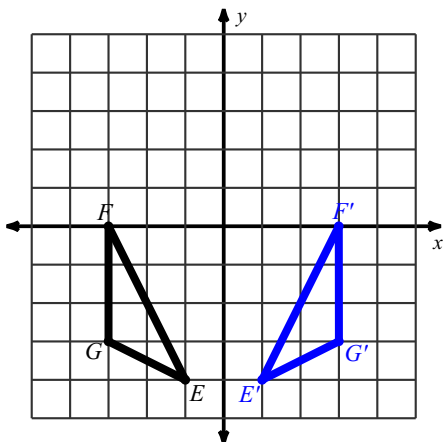
translation: 5 units left and 1 unit up

10)



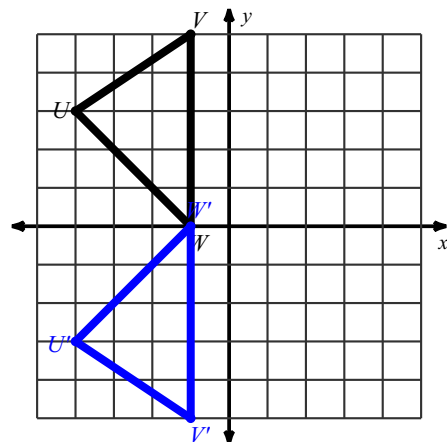
translation: 3 units right and 4 units down

11)



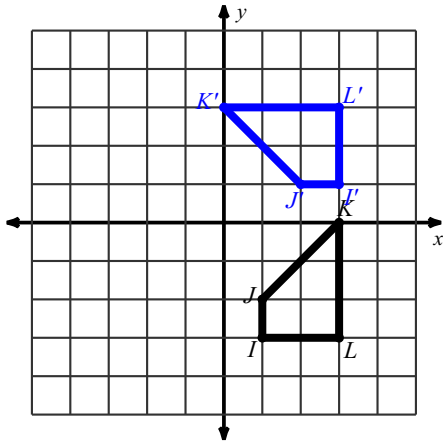
reflection across the y-axis

12)



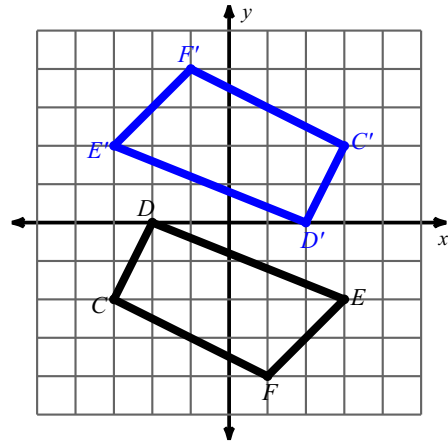
reflection across the x-axis

13)



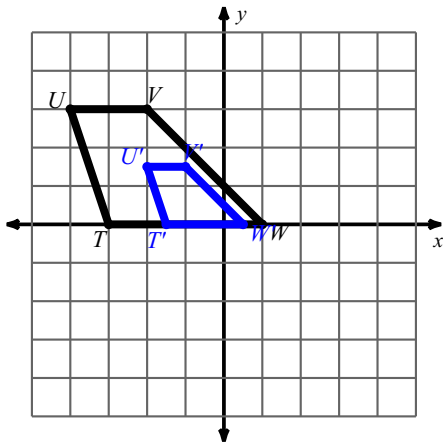
rotation 90° counterclockwise about the origin

14)



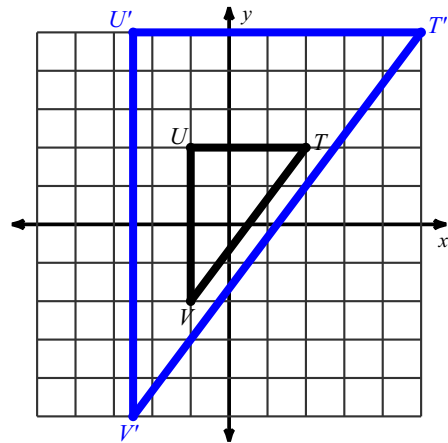
rotation 180° about the origin

15)



dilation of $\frac{1}{2}$

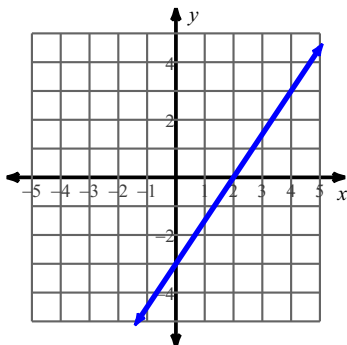
16)



dilation of 2.5

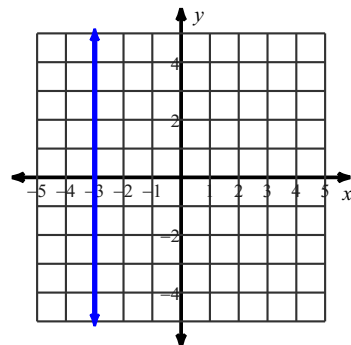
Write the slope-intercept form of the equation of each line.

17)



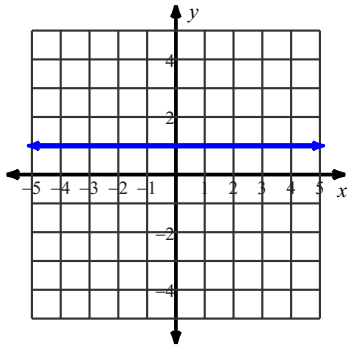
$$y = \frac{3}{2}x - 3$$

18)



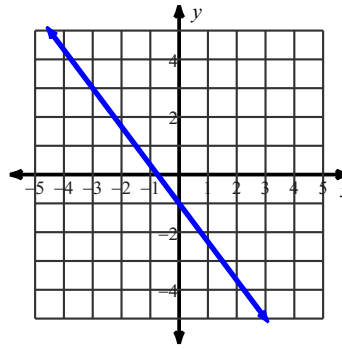
$$x = -3$$

19)



$$y = 1$$

20)



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

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

21) through: $(3, 0)$, slope = $-\frac{1}{3}$

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

22) through: $(0, -4)$, slope = undefined

$$x = 0$$

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

$$y = \frac{2}{3}x + 3$$

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

$$y = 5$$

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

25) through: $(-2, 5)$ and $(-4, 3)$

$$y = x + 7$$

26) through: $(3, 1)$ and $(4, 1)$

$$y = 1$$

27) through: $(0, 4)$ and $(-3, -2)$

$$y = 2x + 4$$

28) through: $(-5, -3)$ and $(-5, 1)$

$$x = -5$$

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

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

$$x = -1$$

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

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

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

$$y = x + 5$$

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

$$y = -3$$

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

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

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

$$y = 3x + 7$$

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

$$y = -5$$

36) through: $(1, 2)$, perp. to $y = -3$

$$x = 1$$