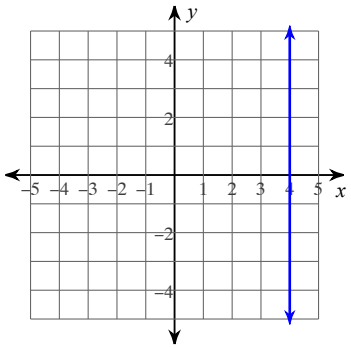
Algebra 3 Name_____ ID: 1

Quiz Review

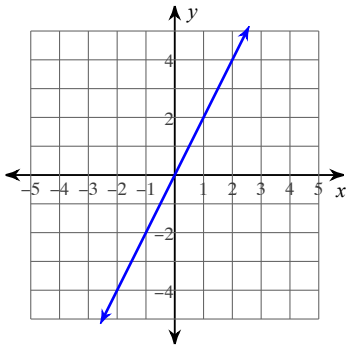
Date_____ Period____

Write the standard form of the equation of each line.

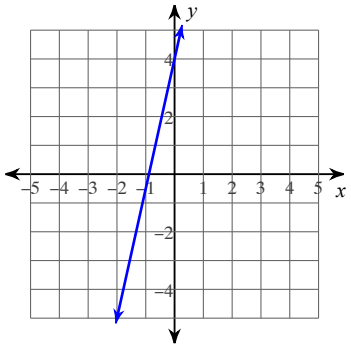
1)



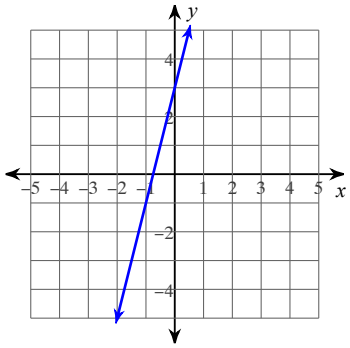
2)



3)



4)



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

5) Slope = $-\frac{3}{2}$, y-intercept = 4

Write the standard form of the equation of each line.

6) $y = 10x + 4$

7) $0 = x + 4$

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

8) through: $(-3, 3)$, slope = $-\frac{8}{7}$

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

9) through: $(2, -1)$ and $(-3, 2)$

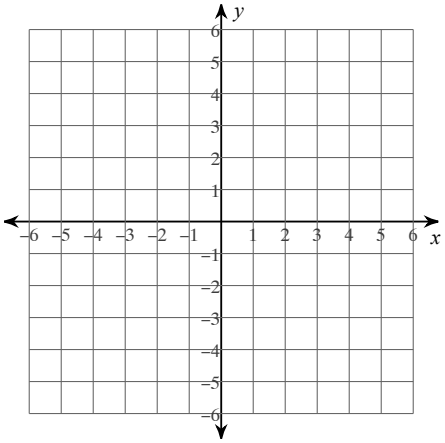
Write the standard form of the equation of the line described.

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

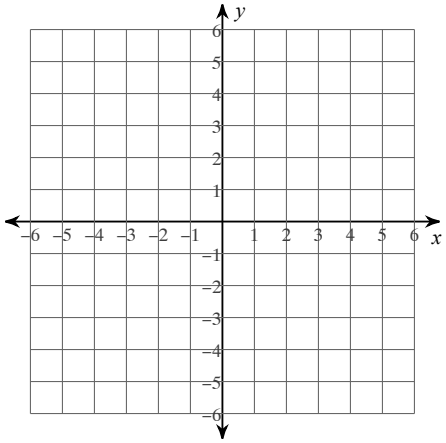
11) through: $(1, -4)$, perp. to $y = -\frac{3}{2}x$

Sketch the graph of each linear inequality.

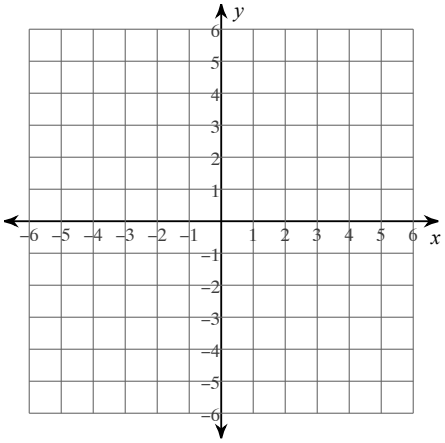
12) $y > -x - 1$



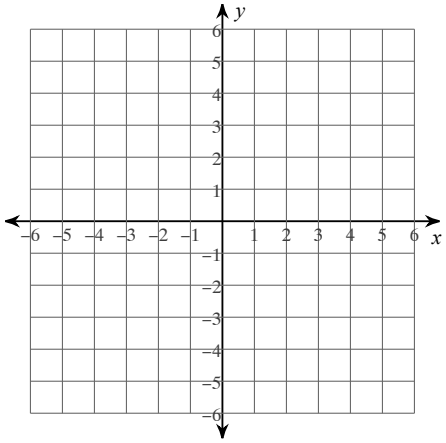
13) $y \leq 3x + 4$



14) $x + 4y > -16$



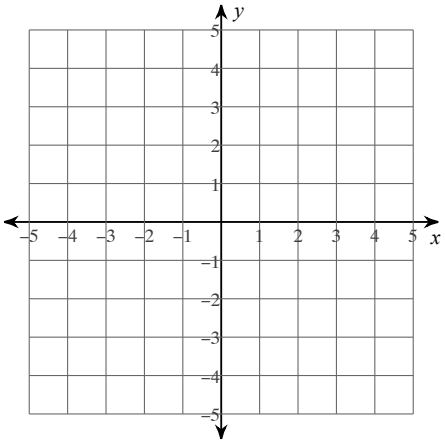
15) $9x + 2y > -10$



Sketch the solution to each system of inequalities.

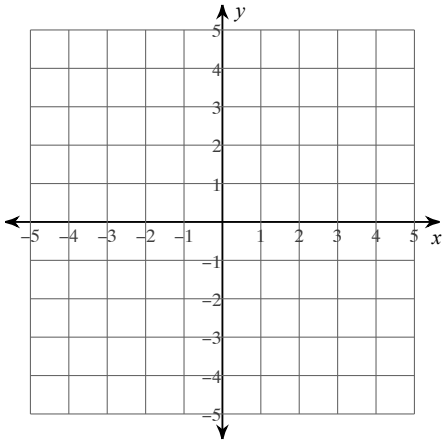
16) $y \geq \frac{1}{2}x - 1$

$y \leq \frac{5}{2}x + 3$



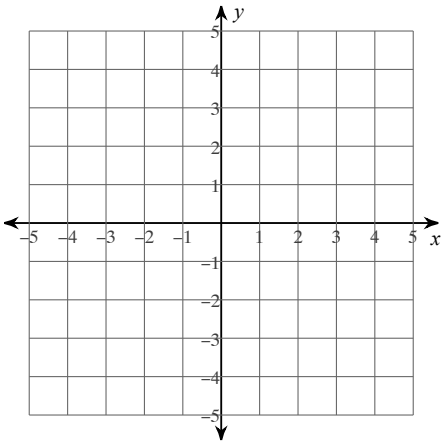
17) $y < \frac{2}{3}x + 1$

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



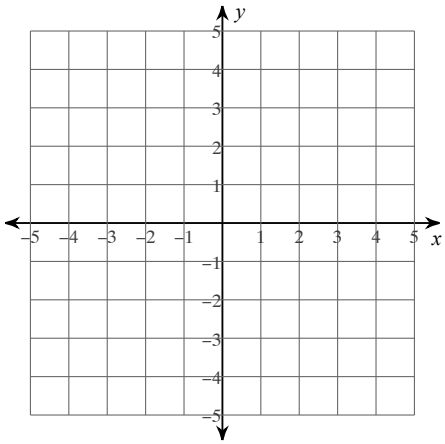
18) $2x + y < -3$

$2x + 3y \leq 3$



19) $x - y \leq 1$

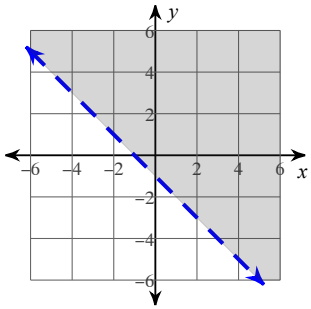
$x - y \leq -3$



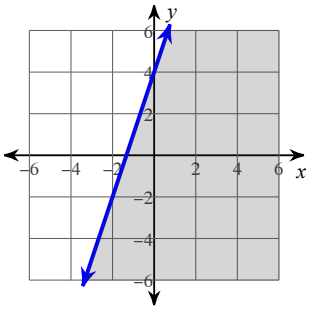
Answers to Quiz Review (ID: 1)

1) $x = 4$
2) $2x - y = 0$
3) $9x - 2y = -8$
4) $4x - y = -3$
5) $3x + 2y = 8$
6) $10x - y = -4$
7) $x = -4$
8) $8x + 7y = -3$
9) $3x + 5y = 1$
10) $6x + 5y = 20$
11) $2x - 3y = 14$

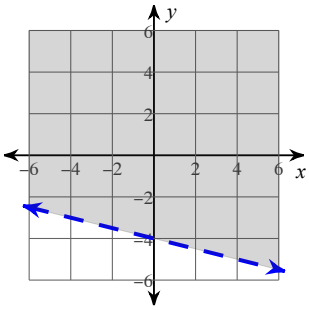
12)



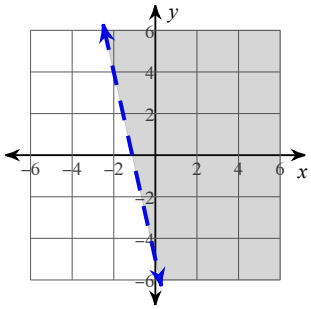
13)



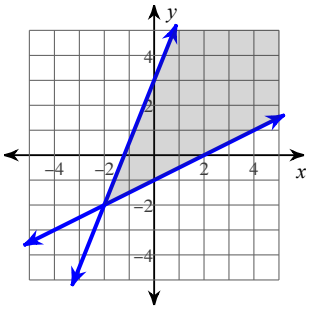
14)



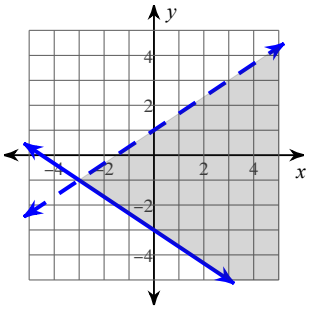
15)



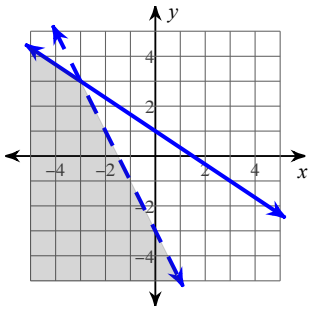
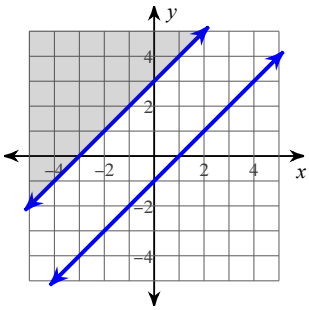
16)



17)



18)



19)