SRHS Math 1 - Assignment #5.1B

Name_____

Solve the equation.

1) $\frac{x}{3} = 7$

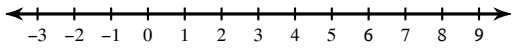
2) $2x - 2x = 0$

3) $22 = -5 + 4b + 5b$

4) $5\left|k - 4\right| = 35$

Solve the inequality and graph its solution.

5) $-55 < -6n - 7 < -25$



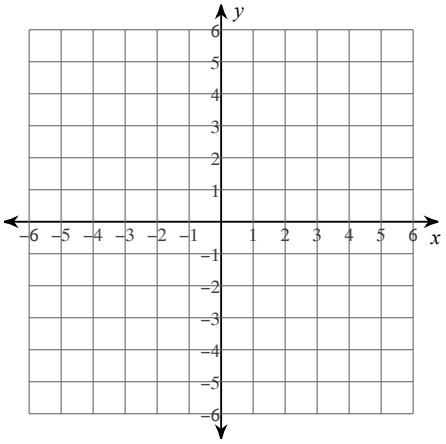
Solve as directed.

6) Evaluate f (x) = 5 x - 11 when x = 8

7) For f (x) = 4 x + 3, find the value of x for which f (x) = 31

Sketch the graph of the linear function using the given intercepts.

8) x-intercept = −2, y-intercept = 3

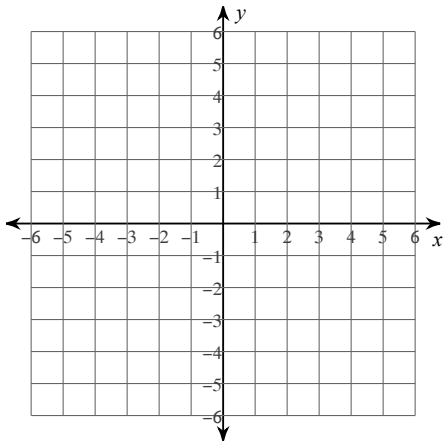


Find the x and y intercepts of the given function.

9) $3x - 12y = 18$

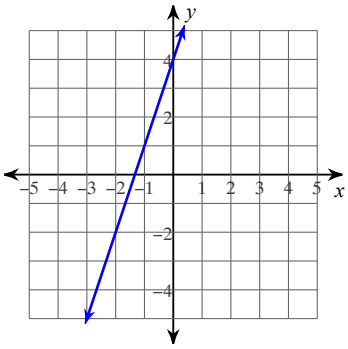
Sketch the graph of the line.

10) $y = -\frac{4}{3}x + 2$



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

11)



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

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

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

13) through: $(-5, 5)$ and $(-1, 2)$

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

14) through: $(-4, -5)$ and $(-2, -1)$

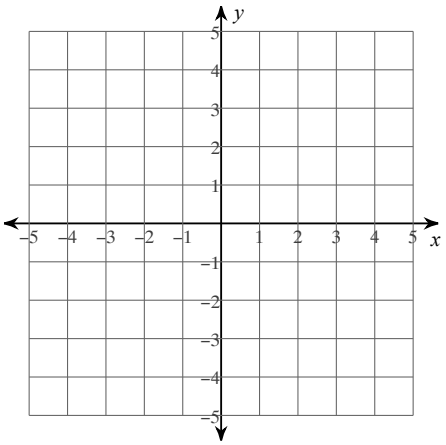
Write an equation of the line...

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

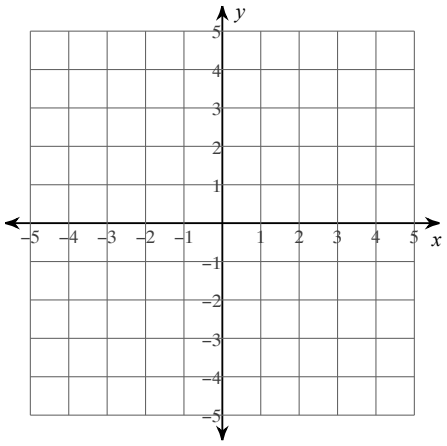
16) through: $(2, -5)$ and perpendicular to $y = \frac{1}{3}x - 2$

Solve each system by graphing.

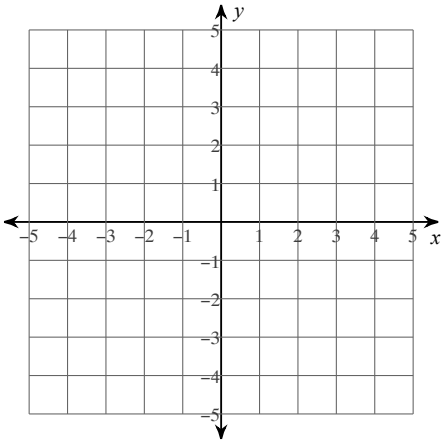
17) $y = \frac{3}{2}x + 1$
$y = -2$



18) $y = -4x - 2$
$y = x + 3$



19) $x + 2y = 4$
$3x + y = -3$



20) $x - 3y = -9$
$x + y = -1$