

Solve each equation.

1) $3(x - 8) = -45$

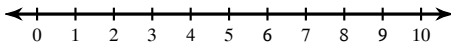
2) $\frac{-1 + n}{5} = 2$

3) $6 + 5a - 8a = -3a + 6$

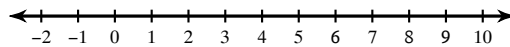
4) $|x + 1| + 7 = 12$

Solve each inequality and graph its solution.

5) $-6x > -18$



6) $|x - 3| > 2$



Solve each equation for the indicated variable.

7) $12x = -2dr$, for x

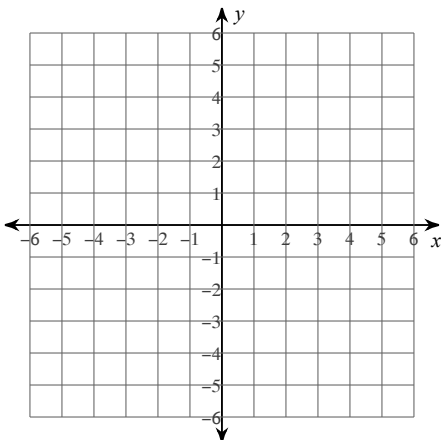
8) $a - k = w - v$, for a

Write each as an algebraic expression.

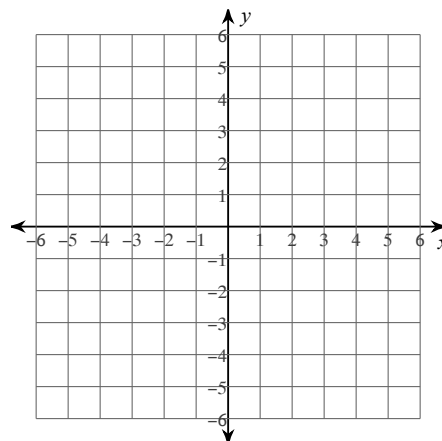
9) the sum of x and 6 is equal to 38

Sketch the graph of each line.

10) $2x + y = 5$



11) $y = \frac{8}{3}x - 4$



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

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

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

13) through: (5, 4) and (0, 2)

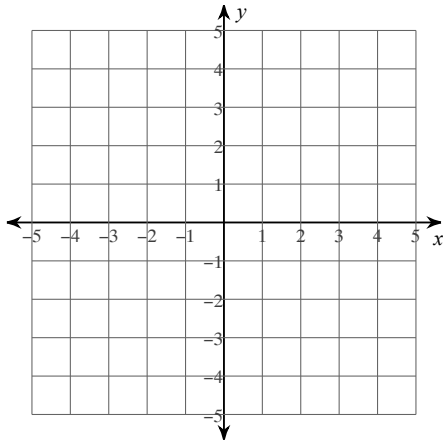
Write the slope-intercept form of the equation of the line described.

14) through: (-1, -5), parallel to $y = 6x - 1$

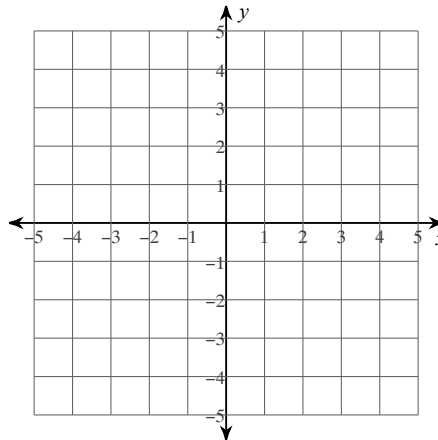
Solve each system by graphing.

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

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



16) $x + y = -3$
 $x - 2y = -6$



Solve each system by substitution.

17) $-5x + y = 7$
 $-5x + 4y = -2$

18) $4x - 2y = 0$
 $-x + y = -3$

Solve each system by elimination.

19) $-x - 4y = -25$
 $-5x - 2y = -17$

20) $4x - 6y = 12$
 $-2x - 12y = -6$