

**Solve each equation.**

1)  $-21 = -3 + x$

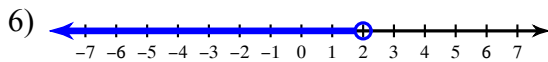
2)  $-7 = \frac{-10 + n}{3}$

3)  $-74 = 4 - 2(5x + 4)$

4)  $9 + 2n = n + 1$

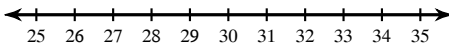
5)  $|v + 9| + 8 = 10$

**Write an inequality for each graph.**

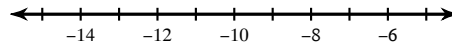


**Solve each inequality and graph its solution.**

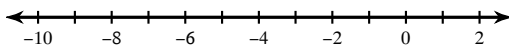
7)  $\frac{x}{8} > 4$



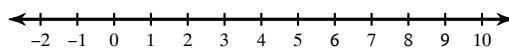
8)  $4 \geq 9 + \frac{n}{2}$



9)  $-6 - 5m < 9$  or  $-7 - 7m > 35$



10)  $|n - 2| < 3$



**Solve each equation for the indicated variable.**

11)  $-9x = \frac{2d}{r}$ , for  $x$

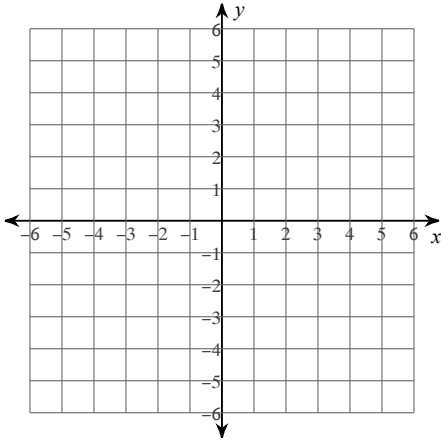
12)  $xc = d - r$ , for  $x$

**Write each as an algebraic expression.**

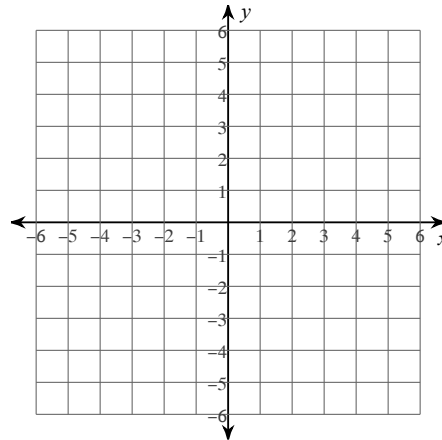
13) the quotient of  $n$  and 3 is 20

Sketch the graph of each line.

14)  $x + 5y = -15$



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



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

16) Slope =  $-\frac{8}{5}$ , y-intercept =  $-4$

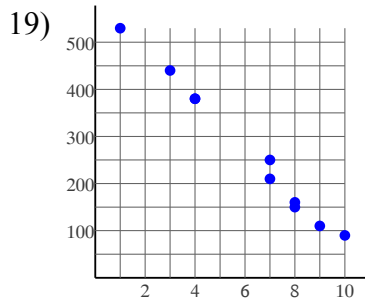
Write the point-slope form of the equation of the line through the given points.

17) through:  $(-3, -5)$  and  $(4, 1)$

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

18) through:  $(4, -4)$ , parallel to  $y = -\frac{9}{4}x - 1$

State if there appears to be a positive correlation, negative correlation, or no correlation.



Solve each system by substitution.

20)  $4x + 5y = 21$   
 $3x + y = 13$