

**Solve each equation.**

1)  $\frac{x - 3}{2} = -11$

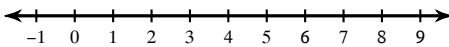
2)  $\frac{m}{4} + 3 = 7$

3)  $5 + n = -n + 3(n - 1)$

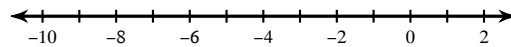
4)  $|x - 7| - 6 = 0$

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

5)  $-8x < -24$



6)  $|p + 5| \leq 3$



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

7)  $g = -4 + 3a$ , for  $a$

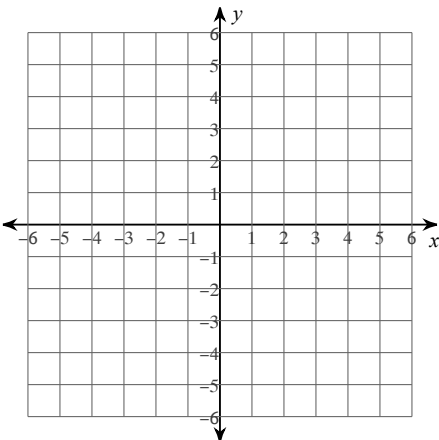
8)  $cx = rd$ , for  $x$

**Write each as an algebraic expression.**

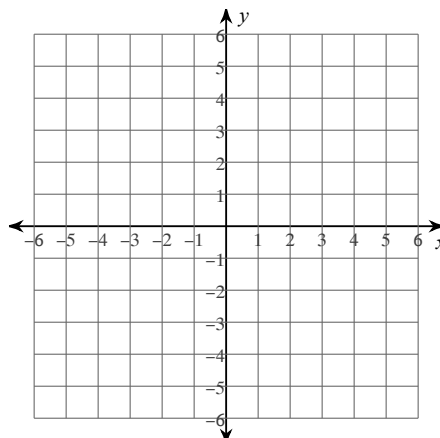
9) 10 less than  $n$  is 18

**Sketch the graph of each line.**

10)  $7x + 4y = 8$



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



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

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

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

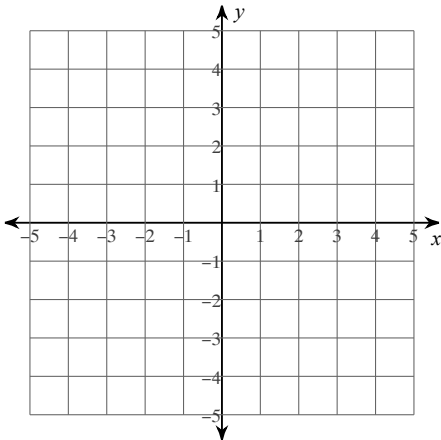
13) through:  $(1, 3)$  and  $(2, -2)$

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

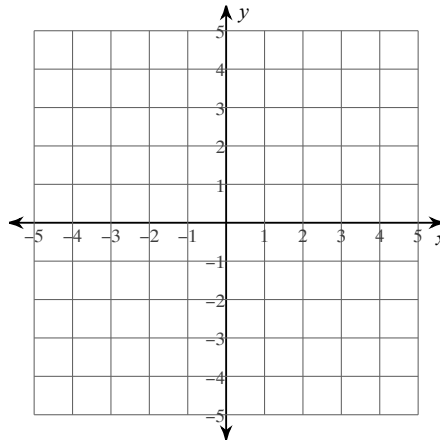
14) through:  $(-1, -5)$ , parallel to  $y = 2x - 5$

Solve each system by graphing.

15)  $y = 5x - 3$   
 $y = x + 1$



16)  $x = -1$   
 $x - y = -2$



Solve each system by substitution.

17)  $y = -7$   
 $-8x - 4y = 4$

18)  $4x + 2y = 10$   
 $-2x + y = -3$

Solve each system by elimination.

19)  $-7x - y = -20$   
 $7x - 6y = -22$

20)  $-2x + 5y = 15$   
 $6x + 8y = 24$