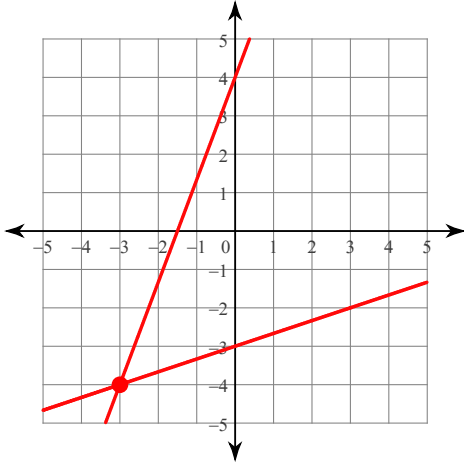


## HW 8.1

Solve each system by graphing by hand.

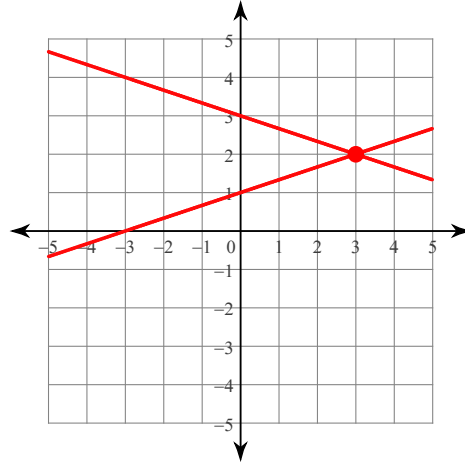
1)  $y = \frac{8}{3}x + 4$

$y = \frac{1}{3}x - 3$

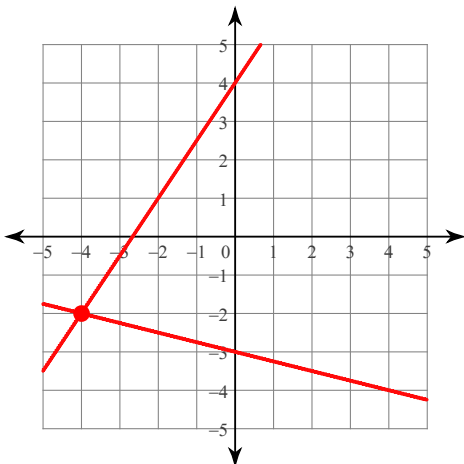
 $(-3, -4)$ 

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

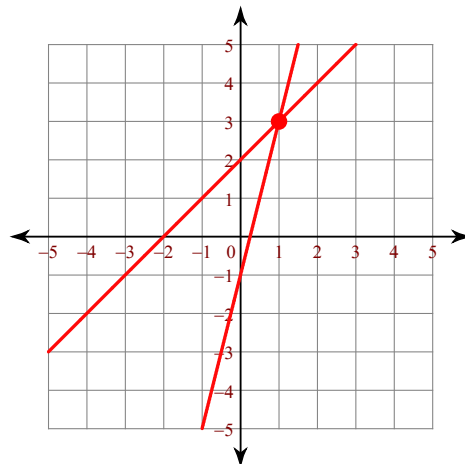
$y = -\frac{1}{3}x + 3$

 $(3, 2)$ 

3)  $24 = -9x + 6y$   
 $-12 - 4y = x$

 $(-4, -2)$ 

4)  $-2y + 8x = 2$   
 $3y - 3x = 6$

 $(1, 3)$

Solve each system by graphing with your graphing calculator or by hand.

$$5) \begin{aligned} y &= -3x - 19 \\ y &= -\frac{7}{9}x + 1 \end{aligned}$$

$(-9, 8)$

$$6) \begin{aligned} y &= \frac{1}{3}x + 17 \\ y &= -\frac{4}{9}x + 10 \end{aligned}$$

$(-9, 14)$

$$7) \begin{aligned} y &= -\frac{1}{14}x + 19 \\ y &= \frac{17}{14}x + 1 \end{aligned}$$

$(14, 18)$

$$8) \begin{aligned} y &= -\frac{2}{3}x + 15 \\ y &= \frac{7}{2}x - 10 \end{aligned}$$

$(6, 11)$

9) Is the point  $(1, 2)$  a solution of the system of linear equations in # 7 above?

**no**

10) Is the point  $(-1, 3)$  a solution of the system of linear equations in # 8 above?

**no**