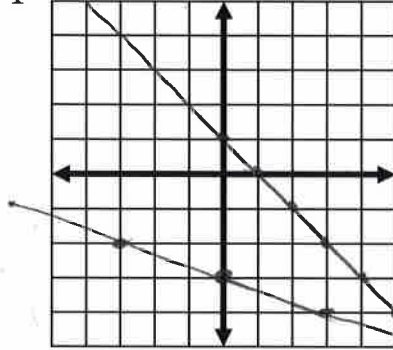


6-1 Solve Systems by Graphing

Solve by graphing:

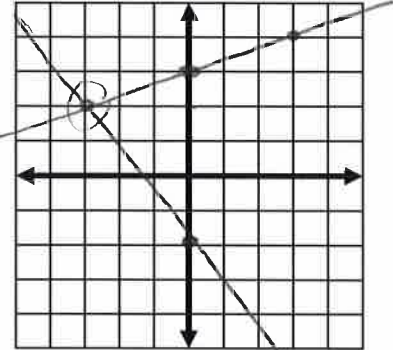
1. $y = -\frac{1}{3}x - 3$
 $y = -x + 1$



Solution: (6, -5) (3)

2. $-x + 3y = 9$
 $4x + 3y = -6$

$\frac{3y}{3} = \frac{-4x - 6}{3}$
 $y = -\frac{4}{3}x - 2$



Solution: (-3, 2) (5)

3. Is (-4, 6) a solution to this system? $3x + 4y = 12$

Show how you know.

Yes!

$3x + 4y = 12$
 $3(-4) + 4(6) = 12$?
 $-12 + 24 = 12$
 $12 = 12$ ✓

$y = -\frac{3}{2}x$
 $6 = -\frac{3}{2}(-4)$?
 $6 = \frac{12}{2}$
 $6 = 6$ ✓

(2)