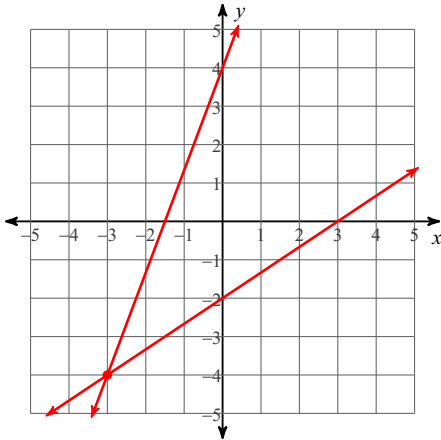


# Systems of Equations

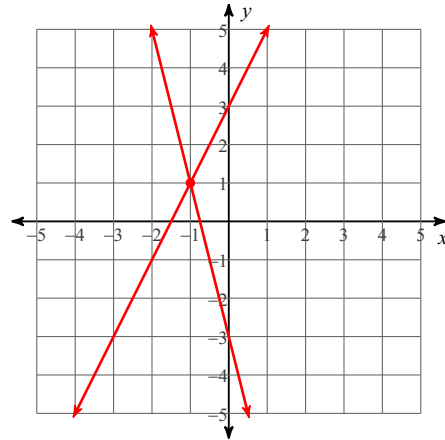
**Solve each system by graphing.**

1)  $6y + 12 = 4x$   
 $8x = -12 + 3y$



$(-3, -4)$

2)  $3 + y + 4x = 0$   
 $6 - 2y + 4x = 0$



$(-1, 1)$

**Solve each system by substitution.**

3)  $8x + 7y = -13$   
 $x - 2y = -16$   
 $(-6, 5)$

4)  $-3x + 6y = -6$   
 $8x + y = 16$   
 $(2, 0)$

**Solve each system by elimination.**

5)  $-2y = -27 - 5x$   
 $0 = -x - \frac{1}{3} + \frac{5}{3}y$   
 $(-7, -4)$

6)  $10x - 2y = -14$   
 $7x - 7y = -21$   
 $(-1, 2)$

**Solve each system.**

7)  $-2x + 2y + z = -3$   
 $-y - 2z = -6$   
 $-x + y - 5z = -7$   
 $(6, 4, 1)$

8)  $3x + 2y = 6$   
 $6x + 5y - 4z = -8$   
 $z = 6x - 7$   
 $(2, 0, 5)$

9)  $4x + 5y - 6z = 20$   
 $-3x - 2y + 6z = -11$   
 $6x + 6y - z = 8$   
 $(-3, 4, -2)$

10)  $5x + 5y + 4z = -9$   
 $3x + 4y + z = -13$   
 $-4x + 5y - z = -2$   
 $(-3, -2, 4)$