3.2a Solving Systems by Substitution

Name_____

Date_____ Hour____

Solve each system by substitution.

1) $y = 2x + 6$
   $y = 3x + 9$

2) $y = -4x - 12$
   $y = -3x - 8$

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

4) $x = 2y + 5$
   $-3x + 2y = 8$

5) $2x + 5y = -23$
   $x - 2y = 2$

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

7) $x + 5y = 23$
   $-5x - 4y = 11$

8) $24x + 3y = 6$
   $8x + y = -7$

3.2a Solving Systems by Substitution

Name_____

Date_____ Hour____

Solve each system by substitution.

1) $y = 2x + 6$
   $y = 3x + 9$

   $(-3, 0)$

2) $y = -4x - 12$
   $y = -3x - 8$

   $(-4, 4)$

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

   Infinite number of solutions

4) $x = 2y + 5$
   $-3x + 2y = 8$

   $(-7, -6)$

5) $2x + 5y = -23$
   $x - 2y = 2$

   $(-4, -3)$

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

   $(-3, -6)$

7) $x + 5y = 23$
   $-5x - 4y = 11$

   $(-7, 6)$

8) $24x + 3y = 6$
   $8x + y = -7$

   No solution