Name_____

Solving Systems of Equations by Substitution

Date_____ Period____

Solve each system by substitution.

1) $y = 6x - 11$
   $-2x - 3y = -7$

2) $2x - 3y = -1$
   $y = x - 1$

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

4) $-3x - 3y = 3$
   $y = -5x - 17$

5) $y = -2$
   $4x - 3y = 18$

6) $y = 5x - 7$
   $-3x - 2y = -12$

7) $-4x + y = 6$
   $-5x - y = 21$

8) $-7x - 2y = -13$
   $x - 2y = 11$

9) $-5x + y = -2$
   $-3x + 6y = -12$

10) $-5x + y = -3$
    $3x - 8y = 24$

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

12) $-3x - 8y = 20$
    $-5x + y = 19$

13) $-3x + 3y = 4$
    $-x + y = 3$

14) $-3x + 3y = 3$
    $-5x + y = 13$

15) $6x + 6y = -6$
    $5x + y = -13$

16) $2x + y = 20$
    $6x - 5y = 12$

17) $-3x - 4y = 2$
    $3x + 3y = -3$

18) $-2x + 6y = 6$
    $-7x + 8y = -5$

19) $-5x - 8y = 17$
    $2x - 7y = -17$

20) $-2x - y = -9$
    $5x - 2y = 18$

Name_____

Solving Systems of Equations by Substitution

Date_____ Period____

Solve each system by substitution.

1) $y = 6x - 11$
$-2x - 3y = -7$

   $(2, 1)$

2) $2x - 3y = -1$
$y = x - 1$

   $(4, 3)$

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

   $(1, 2)$

4) $-3x - 3y = 3$
$y = -5x - 17$

   $(-4, 3)$

5) $y = -2$
$4x - 3y = 18$

   $(3, -2)$

6) $y = 5x - 7$
$-3x - 2y = -12$

   $(2, 3)$

7) $-4x + y = 6$
$-5x - y = 21$

   $(-3, -6)$

8) $-7x - 2y = -13$
$x - 2y = 11$

   $(3, -4)$

9) $-5x + y = -2$
$-3x + 6y = -12$

   $(0, -2)$

10) $-5x + y = -3$
$3x - 8y = 24$

   $(0, -3)$

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

    $(7, -2)$

12) $-3x - 8y = 20$
    $-5x + y = 19$

    $(-4, -1)$

13) $-3x + 3y = 4$
    $-x + y = 3$

    No solution

14) $-3x + 3y = 3$
    $-5x + y = 13$

    $(-3, -2)$

15) $6x + 6y = -6$
    $5x + y = -13$

    $(-3, 2)$

16) $2x + y = 20$
    $6x - 5y = 12$

    $(7, 6)$

17) $-3x - 4y = 2$
    $3x + 3y = -3$

    $(-2, 1)$

18) $-2x + 6y = 6$
    $-7x + 8y = -5$

    $(3, 2)$

19) $-5x - 8y = 17$
    $2x - 7y = -17$

    $(-5, 1)$

20) $-2x - y = -9$
    $5x - 2y = 18$

    $(4, 1)$

Create your own worksheets like this one with **Infinite Algebra 1**. Free trial available at KutaSoftware.com