Math 8 Name_____

Solving Systems Using Substitutuion

Date_____ Period____

Solve each system by substitution.

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

2) $y = 3$
$y = -2x + 11$

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

4) $y = 4x + 10$
$y = 2x + 6$

5) $y = -3x + 4$
$y = 4x - 10$

6) $y = -2x + 4$
$y = -4x + 12$

7) $y = x$
$y = 3x - 8$

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

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

10) $y = -3x + 11$
$y = 2x - 4$

11) $x - 6y = -15$
$-2x + 2y = 10$

12) $x + 6y = 6$
$4x + 2y = 2$

13) $3x + y = 14$
$6x + 2y = 28$

14) $x - 2y = 0$
$-5x + 7y = 0$

15) $x + 6y = 10$
$-5x - 5y = 0$

16) $4x + y = 18$
$-3x - 6y = -24$

17) $-8x + 3y = 12$
$-7x + 6y = 24$

18) $-3x + 21y = -42$
$-x + 7y = -14$

Math 8 Name_____

Solving Systems Using Substitutuion

Date_____ Period____

Solve each system by substitution.

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

$(-2, -2)$

2) $y = 3$
$y = -2x + 11$

$(4, 3)$

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

$(-4, -4)$

4) $y = 4x + 10$
$y = 2x + 6$

$(-2, 2)$

5) $y = -3x + 4$
$y = 4x - 10$

$(2, -2)$

6) $y = -2x + 4$
$y = -4x + 12$

$(4, -4)$

7) $y = x$
$y = 3x - 8$

$(4, 4)$

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

$(-1, 1)$

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

$(-3, -3)$

10) $y = -3x + 11$
$y = 2x - 4$

$(3, 2)$

11) $x - 6y = -15$
$-2x + 2y = 10$

$(-3, 2)$

12) $x + 6y = 6$
$4x + 2y = 2$

$(0, 1)$

13) $3x + y = 14$
$6x + 2y = 28$

Infinite number of solutions

14) $x - 2y = 0$
$-5x + 7y = 0$

$(0, 0)$

15) $x + 6y = 10$
$-5x - 5y = 0$

$(-2, 2)$

16) $4x + y = 18$
$-3x - 6y = -24$

$(4, 2)$

17) $-8x + 3y = 12$
$-7x + 6y = 24$

$(0, 4)$

18) $-3x + 21y = -42$
$-x + 7y = -14$

Infinite number of solutions