

Assignment 10: Solving Systems of Equations by Substitution or Elimination Date _____ Period _____

Solve each system by substitution.

1) $y = 4x - 11$
 $y = x - 2$

2) $y = -2x - 7$
 $y = -3$

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

4) $y = -2x - 7$
 $y = x - 1$

5) $y = 0$
 $y = -4x + 12$

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

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

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

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

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

Solve each system by elimination.

11) $10x + 7y = -1$
 $6x + 14y = -30$

12) $-3x - 8y = 13$
 $-9x - 16y = -1$

13) $3x + 4y = 3$
 $2x + 8y = -14$

14) $-7x - 10y = -21$
 $x + 2y = 7$

15) $x - 2y = -6$
 $8x + 8y = -24$

16) $3x - 7y = 30$
 $10x + 14y = -12$

17) $-18x - 9y = -9$
 $9x - 6y = -27$

18) $-18x + 9y = 9$
 $-9x + 6y = 0$

19) $-3x - 20y = -14$
 $10x - 10y = -30$

20) $-x - 16y = -23$
 $-2x + 8y = -6$

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Solve each system by substitution.

1) $y = 4x - 11$

$y = x - 2$

$(3, 1)$

2) $y = -2x - 7$

$y = -3$

$(-2, -3)$

3) $y = 3x + 4$

$y = -2x - 6$

$(-2, -2)$

4) $y = -2x - 7$

$y = x - 1$

$(-2, -3)$

5) $y = 0$

$y = -4x + 12$

$(3, 0)$

6) $y = 2x + 2$

$y = x + 1$

$(-1, 0)$

7) $y = -3x + 4$

$y = 3x - 2$

$(1, 1)$

8) $y = 2x + 4$

$y = x + 3$

$(-1, 2)$

9) $y = -3x - 12$

$y = 2x + 3$

$(-3, -3)$

10) $y = 4x - 4$

$y = 3x - 4$

$(0, -4)$

Solve each system by elimination.

11) $10x + 7y = -1$

$6x + 14y = -30$

$(2, -3)$

12) $-3x - 8y = 13$

$-9x - 16y = -1$

$(9, -5)$

13) $3x + 4y = 3$

$2x + 8y = -14$

$(5, -3)$

14) $-7x - 10y = -21$

$x + 2y = 7$

$(-7, 7)$

15) $x - 2y = -6$

$8x + 8y = -24$

$(-4, 1)$

16) $3x - 7y = 30$

$10x + 14y = -12$

$(3, -3)$

17) $-18x - 9y = -9$

$9x - 6y = -27$

$(-1, 3)$

18) $-18x + 9y = 9$

$-9x + 6y = 0$

$(-2, -3)$

19) $-3x - 20y = -14$

$10x - 10y = -30$

$(-2, 1)$

20) $-x - 16y = -23$

$-2x + 8y = -6$

$(7, 1)$