Name_____

Systems of Equations - Algebraically

Date_____

Solve each system by substitution. Check your solutions algebraically OR graphically.

1) $y = 8x - 29$
   $y = 2x - 5$

2) $4x - 7y = -33$
   $y = 2x + 19$

3) $4x + y = 28$
   $-11x + 12y = 41$

4) $-6x - 11y = 42$
   $-8x - 2y = -20$

Solve each system by elimination. Check your solution algebraically OR graphically.

5) $x + y = -10$
   $-x + 2y = 4$

6) $3x - 5y = -5$
   $3x - 7y = -19$

7) $12x - 8y = 12$
   $3x - 3y = -3$

8) $5x + 8y = -7$
   $8x + 9y = -15$

Solve each system by either substitution or elimination. Check your solutions algebraically OR graphically.

9) $-5x - 2y = -18$
   $y = -4x + 18$

10) $x - 6y = 6$
    $2x - 5y = 5$

11) $-6x - y = 3$
    $-6x + y = 9$

12) $2x - 4y = -22$
    $-3x + 4y = 23$

Answers to Systems of Equations - Algebraically

1) $(4, 3)$

2) $(-10, -1)$

3) $(5, 8)$

4) $(4, -6)$

5) $(-8, -2)$

6) $(10, 7)$

7) $(5, 6)$

8) $(-3, 1)$

9) $(6, -6)$

10) $(0, -1)$

11) $(-1, 3)$

12) $(-1, 5)$