Name_____

Solving Systems of Equations by Elimination

Date_____ Period____

Solve each system by elimination.

1) $-4x - 2y = -12$
   $4x + 8y = -24$

   $(6, -6)$

2) $4x + 8y = 20$
   $-4x + 2y = -30$

   $(7, -1)$

3) $x - y = 11$
   $2x + y = 19$

   $(10, -1)$

4) $-6x + 5y = 1$
   $6x + 4y = -10$

   $(-1, -1)$

5) $-2x - 9y = -25$
   $-4x - 9y = -23$

   $(-1, 3)$

6) $8x + y = -16$
   $-3x + y = -5$

   $(-1, -8)$

7) $-6x + 6y = 6$
   $-6x + 3y = -12$

   $(5, 6)$

8) $7x + 2y = 24$
   $8x + 2y = 30$

   $(6, -9)$

9) $5x + y = 9$
   $10x - 7y = -18$

   $(1, 4)$

10) $-4x + 9y = 9$
    $x - 3y = -6$

    $(9, 5)$

11) $-3x + 7y = -16$
    $-9x + 5y = 16$

    $(-4, -4)$

12) $-7x + y = -19$
    $-2x + 3y = -19$

    $(2, -5)$

13) $16x - 10y = 10$
$-8x - 6y = 6$

$(0, -1)$

14) $8x + 14y = 4$
$-6x - 7y = -10$

$(4, -2)$

15) $-4x - 15y = -17$
$-x + 5y = -13$

$(8, -1)$

16) $-x - 7y = 14$
$-4x - 14y = 28$

$(0, -2)$

17) $-7x - 8y = 9$
$-4x + 9y = -22$

$(1, -2)$

18) $5x + 4y = -30$
$3x - 9y = -18$

$(-6, 0)$

19) $-4x - 2y = 14$
$-10x + 7y = -25$

$(-1, -5)$

20) $3x - 2y = 2$
$5x - 5y = 10$

$(-2, -4)$

21) $5x + 4y = -14$
$3x + 6y = 6$

$(-6, 4)$

22) $2x + 8y = 6$
$-5x - 20y = -15$

Infinite number of solutions

23) $-14 = -20y - 7x$
$10y + 4 = 2x$

$(2, 0)$

24) $3 + 2x - y = 0$
$-3 - 7y = 10x$

$(-1, 1)$