Algebra 2 Name_____

Solving Systems Practice

Solve each system by substitution.

1) $y = -3x$
$y = 6x - 18$

2) $y = 4x + 14$
$y = -7x - 30$

3) $y = -3x + 20$
$y = 3x - 10$

4) $y = 2x - 2$
$7x - 6y = 22$

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

6) $6x + 9y = 24$
$y = -3x + 19$

7) $-4x + 5y = -18$
$x - 10y = 22$

8) $x + 2y = -9$
$7x - 5y = 13$

9) $4x - 8y = 12$
$x + 2y = 11$

10) $2x - 6y = 18$
$10x + y = 28$

11) $-10x - 6y = 14$
$x - 7y = 29$

12) $8x + 10y = -6$
$5x + y = 12$

Solve each system by elimination.

13) $7x - 2y = -10$
$9x + 2y = 10$

14) $-7x + 5y = -25$
$3x - 5y = 25$

15) $-9x - 4y = 4$
$9x - 10y = 10$

16) $3x + y = 21$
$-2x + y = 1$

17) $7x - 8y = 15$
$-9x - 8y = -1$

18) $-2x - 7y = -11$
$-x - 7y = -2$

19) $x - y = -6$
$-4x - 3y = -4$

20) $2x + 8y = -6$
$7x + 16y = 15$

21) $-9x - 12y = -6$
$6x - 2y = 14$

22) $-6x + 5y = 10$
$10x + 7y = 14$

23) $4x + 5y = -23$
$5x - 2y = -4$

24) $-2x + 7y = -20$
$5x - 5y = 0$