Solve the System of Equations by Elimination Name_____

Algebra 1.5

Date_____

Solve each system by elimination. Find one variable, then find the other. Put both values in the 'unused' equation to check your answer. Graph any 6 equations to see the intersection.

1) $-3x + 9y = 6$
$3x + 5y = 8$

2) $4x + 2y = -12$
$-5x - 2y = 11$

3) $4x + 6y = -14$
$9x + 6y = 6$

4) $-x + y = 0$
$-x + 2y = -5$

5) $-3x + 2y = -5$
$-3x + 5y = 1$

6) $2x - 10y = 6$
$2x + 4y = -22$

7) $-2x - 3y = -8$
$5x + 12y = 2$

8) $-8x + 7y = -5$
$-16x + 14y = -10$

9) $-18x - 10y = -14$
$9x + 7y = 17$

10) $4x - 3y = -11$
$-2x + 6y = 10$

11) $-40x + 5y = 0$
$-8x + y = 7$

12) $-4x + 12y = -24$
$-5x - 4y = 27$

13) $-3x + 10y = -10$
$9x - 2y = 2$

14) $7x + y = -8$
$4x + 3y = 10$

15) $3x - 3y = 15$
$4x - 2y = 16$

16) $10x + 4y = 0$
$4x - 3y = 0$

17) $6x + 7y = 22$
$-4x + 5y = 24$

18) $6x + 8y = 0$
$-8x + 6y = 0$