Name_____Period_____

Score: _____/_____ _____%

HW 6-3 HONORS: Solving Systems using Elimination

For questions #1-12, solve using elimination. SHOW ALL WORK! Remember you can check your solutions!

1. $4x + 7y = -80$
   $3x + 5y = -58$

2. $-4x + 2y = 0$
   $10x + 3y = 8$

3. $x + 4y = -4$
   $x + 10y = -16$

4. $4y + 3x = 20$
   $-3x - 4y = 8$

5. $3x - 5y = 11$
   $5(x + y) = 5$

6. $2x + 3y = 15$
   $4x + 2y = 18$

Solve using elimination. SHOW ALL WORK! Remember you can check your solutions!

7. $3x - 3y = -6$
$-5x + 6y = 12$

8. $4(x + 2y) = 8$
$4x + 4y = 12$

9. $6x - 7y = -26$
$6x + 5y = 10$

10. $2x - 3y = 5$
$-2x + 3y = -5$

11. $4x + 3y = 6$
$3x + 3y = 7$

12. $\frac{3}{5}x + \frac{1}{4}y = 3$
$-\frac{3}{5}x + \frac{3}{4}y = -3$

For questions #13-21, solve using any method you choose. Attach graph paper if you solve by graphing.

13. $y = 5x + 1$
$4x + y = 10$

14. $-1 = 2x - y$
$8x - 4y = 8$

15. $5x - y = 5$
$-x + 3y = 13$

16. $3x + y = -5$
$6x + 2y = 10$

17. $-5x + 4y = 20$
$10x - 8y = -40$

18. $y = \frac{1}{2}x$
$y = x + 2$

19. $-3x - 8y = -24$
$3x - 5y = 4.5$

20. $y = 2x - 17$
$y = x - 10$

21. $x + 4y = 0$
$3x + \frac{1}{2}y = 23$