Algebra 1 Name_____

Objective: Solving systems of Equations

For a tutorial on how to solve systems of equations, please visit:
Substitution: http://www.youtube.com/watch?v=cwHR_B9zK7k
Elimination: http://www.youtube.com/watch?v=0EVARO3sBZ0

Solve each system of equations below.

1. $8y - x = 1$
   $10y = x + 5$

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

3. $y + x = -2$
   $5x - 3y = 22$

4. $y = \frac{2}{3}x - 4$
   $2x - 3y = 10$

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

6. $2x + 3y = 7$
   $-3x - 5y = -13$

7. $8 - y = 3x$
$2y + 3x = 5$

8. $3y - 2x = 12$
$2y = x + 4$

9. $3x - 2y = -10$
$-2x + 2y = -10$

10. $y = 5x + 3$
$-2x - 4y = 10$

11. $2x + y = -7y$
$y = x + 10$

12. $3x = -5y$
$6x - 7y = 17$

**Check your answers !**

1. (15, 2) 2. (-3, 4) 3. (2, -4) 4. No solution 5. (4, -3) 6. (-4, 5)

7. $(\frac{11}{3}, -3)$ 8. (-12, -4) 9. 4, -1) 10. (-1, -2) 11. (-8, 2) 12. $(\frac{5}{3}, -1)$