

**Lesson #8 D-2: Understanding, Solving and Graphing One Variable Equations  
(Reference: Lesson #20, #35, #41 & #49 in books)****Problem**

1. For each of the following equations/functions please solve for the variable, then graph then function and find the x and y intercepts and slope.

1.  $3 + y - 10 + 4y = 28$

2.  $-6x + 14 - 2x - 11 = 19$

3.  $12y - 12 + 5y + 6 = 30 - y$

4.  $4x + 6 + 2x - 3 = 9 + 5x - 4$

5.  $3y + 8 - 8y = 15y + 3 - 15$

6.  $8(1 + 5y) + 5 = -22 + 5y$

7.  $32 - 12x = 32 - 8(x + 2)$

8.  $4y + 4(y + 4) = 2(3y + 6)$

9.  $5(2x + 6) = -4(-5 - 2x) + 3x$

10.  $-5(1 - 5y) + 5(-8y - 2) = -4y - 8y$