

**Solving Multi-Step Equation Review:**

1.  $-2(x - 4) = 2$

2.  $\frac{1}{3}x + x = -8$

3.  $4 = \frac{2}{3}x + 9 - \frac{1}{3}x$

4.  $x - (3x - 9) = -5$

5.  $13x - 4(2x - 5) = 15$

6.  $2(2x - 3) = 4x - 6$

7.  $2(x - 1) = \frac{3}{5}(10 + 5x)$

8.  $\frac{1}{2}x - 8 = 14 + \frac{1}{2}x$

9.  $\frac{1}{4}(4 - x) = 10 + 2x$

10.  $\frac{1}{2}d - \frac{3}{4} = \frac{3}{5}d$

**Solving Inequalities Review:**

11.  $2x - 4 \geq 4x - 1$

12.  $y + 2 > -1$

13.  $-2x < -14$

14.  $-4x \geq -12$

15.  $3x + 2 \leq 7x$

16.  $2x - 1 > 6x + 2$

17.  $13 + 2v - 8 + 6 > -7 - v$

18.  $-5n - 6n \leq 8 - 8n - n$

19.  $-5n + 6 \geq -7(5n - 6) - 6n$

20.  $3(5p - 3) - 10p > 5p - 6$

**Linear Equation Practice Problems:**

Solve each equation

21.  $8x - 2 = -9 + 7x$

22.  $a + 5 = -5a + 5$

23.  $5p - 14 = 8p + 4$

24.  $p - 4 = -9 + p$

25.  $-8 = -(x + 4)$

26.  $12 = -4(-6x - 3)$

27.  $2(4x - 3) - 8 = 4 + 2x$

28.  $3n - 5 = -8(6 + 5n)$

29.  $-(1 + 7x) - 6(-7 - x) = 36$

30.  $-3(4x + 3) + 4(6x + 1) = 43$

31.  $24a - 22 = -4(1 - 6a)$

32.  $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$

**Linear Inequality Practice Problems:**

**Draw a graph for each inequality**

33.  $b \leq -2$

34.  $2 \geq -p$

35.  $-n > -5$

36.  $n \leq -5$

37.  $6 \geq p$

38.  $-n \geq -2$

39.  $3 > -x$

40.  $x \leq 1$

