

**Algebra Basics: Solve each equation. SHOW ALL WORK!!**

1.  $6x + 7 = 8x - 13$

2.  $\frac{3n-2}{5} = \frac{7}{10}$

3.  $13.7b - 6.5 = -2.3b + 8.3$

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

5.  $-7(x - 3) = -4$

6.  $28 - 2.2y = 11.6y + 262.6$

7.  $7 - 3x = x - 4(2 + x)$

8.  $6(y + 2) - 4 = -10$

9.  $-8(4 + 9x) = 7(-2 - 11x)$

10.  $4(2a - 8) = \frac{1}{7}(49a + 70)$

**Solve each equation for y. SHOW ALL WORK!!!**

1)  $2x + 3y = 6$

2)  $x - 4y = 8$

3)  $8x - 3y = -6$

4)  $5x + y = 10$

5)  $x - y = 10$

6)  $7x + 3y = 12$

7)  $4x - 7y = 14$

8)  $9x - 12y = 12$

9)  $5x + 10y = 10$

10)  $12x + 2y = 5$

11)  $x + 6y = 18$

12)  $7x + 14y = 42$