Algebra 2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_\_\_\_\_

**Solving Exponential Equations**

Solve each equation.

1) 73x+8 = 72x – 5 2) 5-2x = 53x-10

3) 22x = 84 4) 3x+3 = 272

5) 1253x = 54x + 10 6) 

7) 25x+2 = 6252x – 10 8) $\left(\frac{1}{9}\right)$ = 3x + 1

9)$ \left(\frac{1}{25}\right)^{3x-4}$ = 125 10) 

11)  12) 

13.) 