Unit 8 – Day 4: Solving Exponential and Logarithmic Equations   
HONORS Assignment

**Solve each equation.**

1) 252n + 1 = 625 2) log3x = 2

3) 2logx – log 4 = 2 4) 8x + 1 = 3

5) 2(10-x/3) = 20 6) log(x + 21) + logx = 2

7) 32(0.25)x/3 = 2 8) log9x+ log9(x – 8) = 1

9) log4(x) – log4(x – 1) = ½ 10) log(3x2 + 2x – 4) = 0

**Find the inverse of each function.**

11) f(x) = 7x – 5

12) y = log3(x + 6)h