Bellwork Monday, March 17, 2014

Solve each equation. Round to the nearest hundredth.

1. 
$$7^{x} = 500$$

$$\frac{\log 50}{\log 50} = (x=3.19)$$

2. 
$$10^{x} = 32$$

$$(0)^{32} = x$$
  
 $x = 1.5$ 

3. 
$$4^{\times} = 0.75$$

6. The population of a city in 2003 was 500,000 and decreases 3.5% each year. In how many years will the population reach 100,000? Round to the nearest hundredth.

$$\frac{(00,000 = 500,000)}{500,000} = \frac{500,000}{500,000} = \frac{500,000}{500,000}$$

$$.2 = .965^{\times}$$

$$.3 = .965^{\times}$$

$$.3 = .45.045$$

4. 
$$2 \cdot 5^{x-3} + 8 = 20$$

$$5 \times 3 = 6$$

$$6 \times 6 = x - 3$$

$$6 \times 8 = 20$$

$$2.6 \times 8 = 20$$

$$3.6 \times 8 = 20$$

$$3.6 \times 8 = 20$$

$$\log_{x} \delta = 13$$

$$\log_{x} \delta = 2.6 \quad \text{a.b.} \quad \text{a$$