/8

Name __Key__

Per _____

LT #2: Log Functions as Inverses

Rewrite each equation in logarithmic form. (1 pt each)

1. $64^{\frac{1}{2}} = 8$

2. $10^2 = 100$

Rewrite each equation in exponential form. (1 pt each)

3. $\log_5 25 = 2$

4. $\log 1000 = 3$

Compute the following. Round to the nearest hundreth if necessary. (1 pt each)

5. $\log_2 32 = $ _____

6. $\log 52 = $ _____

Find the inverse of the following function. *Hint: switch x & y.* (2 pts)

7. $y = 5^x$

$$x = 5^y$$

$$\log_5 x = y$$

1. $\log_{64} 8 = \frac{1}{2}$

2. $\log_{10} 100 = 2$ OR $\log 100 = 2$

3. $5^2 = 25$

4. $10^3 = 1000$

5. 5

6. 1.72

7. $y = \log_5 x$