Name_____

Logarithms - Day 1 Homework!

Date_____ Period_____

Evaluate each expression. (Rewrite into an exponential equation first!)

1) $\log_2 \dfrac{1}{16}$

2) $\log_2 32$

3) $\log_7 343$

4) $\log_4 64$

5) $\log_4 1$

6) $\log_4 \dfrac{1}{16}$

Rewrite each equation in exponential form. (No solving)

7) $\log_{11} 121 = 2$

8) $\log_{196} \dfrac{1}{14} = -\dfrac{1}{2}$

9) $\log_8 64 = 2$

10) $\log_6 36 = 2$

Rewrite each equation in logarithmic form. (No solving)

11) $\left(\dfrac{1}{12}\right)^2 = \dfrac{1}{144}$

12) $15^{-1} = \dfrac{1}{15}$

13) $4^3 = 64$

14) $7^3 = 343$