

Assignment

Date _____ Period _____

Rewrite each equation in exponential form.

1) $\log_8 64 = 2$

2) $\log_{17} 289 = 2$

3) $\log_3 81 = 4$

4) $\log_{14} 196 = 2$

5) $\log_{361} \frac{1}{19} = -\frac{1}{2}$

6) $\log_{\frac{1}{7}} \frac{1}{49} = 2$

Rewrite each equation in logarithmic form.

7) $15^{-2} = \frac{1}{225}$

8) $9^2 = 81$

9) $14^2 = 196$

10) $2^{-3} = \frac{1}{8}$

11) $12^{-2} = \frac{1}{144}$

12) $18^2 = 324$

13) $12^v = u$

14) $k^8 = 191$

15) $\left(\frac{7}{4}\right)^x = y$

16) $x^{-9} = y$

17) $20^b = 199$

18) $14^x = 160$

Rewrite each equation in exponential form.

19) $\log_{11} x = y$

20) $\log_3 x = y$

21) $\log_{14} x = y$

22) $\log_4 143 = v$

23) $\log_v u = -7$

24) $\log_{\frac{5}{3}} v = u$