

Pre-Calculus

KEY

Rewrite expressions between exponential & logarithmic forms.

1.  $16^2 = 256$

2.  $9^2 = 81$

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

4.  $5^3 = 125$

5.  $20^2 = 400$

6.  $17^2 = 289$

7.  $13^2 = 169$

8.  $4^3 = 64$

9.  $9^{-2} = \frac{1}{81}$

10.  $169^{\frac{1}{2}} = 13$

11.  $\log_4 2 = \frac{1}{2}$

12.  $\log_3 243 = 5$

13.  $\log_{14} \left(\frac{1}{196}\right) = -2$

14.  $\log_{18} 324 = 2$

15.  $\log_3 27 = 3$

16.  $\log_{\frac{1}{6}} \left(\frac{1}{216}\right) = 3$

17.  $\log_{15} 225 = 2$

18.  $\log_{36} \left(\frac{1}{6}\right) = -\frac{1}{2}$

19.  $\log_6 216 = 3$

20.  $\log_{17} 289 = 2$