

Exponents and Logarithms

A) Express each equation in logarithmic form.

1) $5^4 = 625$

2) $64^{\frac{1}{6}} = 2$

3) $6^3 = 216$

4) $3^6 = 729$

5) $2^6 = 64$

6) $4^{-2} = \frac{1}{16}$

B) Express each equation in exponential form.

1) $\log_3 81 = 4$

2) $\log_2 128 = 7$

3) $\log_{81} 9 = \frac{1}{2}$

4) $\log_7 343 = 3$

5) $\log_{27} 3 = \frac{1}{3}$

6) $\log_2 \left(\frac{1}{8}\right) = -3$
