

Exponents and Logarithms

A) Express each equation in logarithmic form.

1) $8^2 = 64$

2) $2^5 = 32$

3) $3^{-2} = \frac{1}{9}$

4) $81^{\frac{1}{4}} = 3$

5) $7^3 = 343$

6) $9^2 = 81$

B) Express each equation in exponential form.

1) $\log_3\left(\frac{1}{27}\right) = -3$

2) $\log_{64}4 = \frac{1}{3}$

3) $\log_{32}2 = \frac{1}{5}$

4) $\log_2 256 = 8$

5) $\log_8 512 = 3$

6) $\log_5 25 = 2$
