

Logarithmic & Exponential Form

Variables: S3

Express each equation in logarithmic form.

1) $x^3 = 125$

2) $2^5 = w$

3) $4^{-k} = \frac{1}{64}$

4) $u^{\frac{1}{3}} = 2$

5) $10^3 = s$

7) $v^{-3} = \frac{1}{8}$

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Express each equation in logarithmic form.

9) $\log_5 k = 2$

11) $\log_4 64 = z$

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

14) $\log_6 216 = h$

15) $\log_{10} 100 = s$

16) $\log_2 \left(\frac{1}{16}\right) = -w$

Logarithmic & Exponential Form

Variables: S3

Express each equation in logarithmic form.

1) $x^3 = 125$

$\log_x 125 = 3$

2) $2^5 = w$

$\log_2 w = 5$

3) $4^{-k} = \frac{1}{64}$

$\log_4 \left(\frac{1}{64}\right) = -k$

4) $u^{\frac{1}{3}} = 2$

$\log_u 2 = \frac{1}{3}$

5) $10^3 = s$

$\log_{10} s = 3$

7) $v^{-3} = \frac{1}{8}$

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

Express each equation in exponential form.

9) $\log_5 k = 2$

$5^2 = k$

11) $\log_4 64 = z$

$4^z = 64$

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

$x^{-3} = \frac{1}{27}$

15) $\log_{10} 100 = s$

$10^s = 100$

14) $\log_6 216 = h$

$6^h = 216$

16) $\log_2 \left(\frac{1}{16}\right) = -w$

$2^{-w} = \frac{1}{16}$

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