

Logarithmic & Exponential Form

Variables: S2

Express each equation in logarithmic form.

1) $2^3 = r$

2) $a^7 = 128$

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

4) $7^6 = s$

5) $4^z = 64$

7) $x^{\frac{1}{6}} = 2$

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Express each equation in logarithmic form.

9) $\log_8 512 = h$

11) $\log_4 \left(\frac{1}{16} \right) = -y$

13) $\log_x 81 = 4$

14) $\log_{49} 7 = f$

15) $\log_{11} n = 2$

16) $\log_8 k = \frac{1}{2}$

Logarithmic & Exponential Form

Variables: S2

Express each equation in logarithmic form.

1) $2^3 = r$

$\log_2 r = 3$

2) $a^7 = 128$

$\log_a 128 = 7$

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

$\log_u 3 = \frac{1}{4}$

4) $7^6 = s$

$\log_7 s = 6$

5) $4^z = 64$

$\log_4 64 = z$

7) $x^{\frac{1}{6}} = 2$

$\log_x 2 = \frac{1}{6}$

Express each equation in exponential form.

9) $\log_8 512 = h$

$8^h = 512$

11) $\log_4 \left(\frac{1}{16}\right) = -y$

$4^{-y} = \frac{1}{16}$

13) $\log_x 81 = 4$

$x^4 = 81$

15) $\log_{11} n = 2$

$11^2 = n$

14) $\log_{49} 7 = f$

$49^f = 7$

16) $\log_8 k = \frac{1}{2}$

$8^{\frac{1}{2}} = k$

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