

Logarithmic & Exponential Form

Variables: S1

Express each equation in logarithmic form.

1) $6^m = 36$

2) $x^{\frac{1}{2}} = 5$

3) $9^5 = w$

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

5) $5^b = 125$

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

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Express each eq

9) $\log_3 27 = n$

11) $\log_6 z = 3$

13) $\log_5 \left(\frac{1}{25} \right) = -y$

14) $\log_x 100 = 2$

15) $\log_{12} 144 = s$

16) $\log_{36} p = \frac{1}{2}$

Logarithmic & Exponential Form

Variables: S1

Express each equation in logarithmic form.

1) $6^m = 36$

$\log_6 36 = m$

2) $x^{\frac{1}{2}} = 5$

$\log_x 5 = \frac{1}{2}$

3) $9^5 = w$

$\log_9 w = 5$

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

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

5) $5^b = 125$

$\log_5 125 = b$

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

$\log_8 s = \frac{1}{3}$

Express each eq

9) $\log_3 27 = n$

$3^n = 27$

11) $\log_6 z = 3$

$6^3 = z$

13) $\log_5 \left(\frac{1}{25} \right) = -y$

$5^{-y} = \frac{1}{25}$

15) $\log_{12} 144 = s$

$12^s = 144$

14) $\log_x 100 = 2$

$x^2 = 100$

16) $\log_{36} p = \frac{1}{2}$

$36^{\frac{1}{2}} = p$

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