

Logarithmic & Exponential Form

Numerals: S2

Express each equation in logarithmic form.

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

2) $11^2 = 121$

3) $2^4 = 16$

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

5) $3^5 = 243$

7) $64^{\frac{1}{3}} = 4$

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Express each equation in logarithmic form.

9) $\log_7 49 = 2$

11) $\log_3 81 = 4$

13) $\log_2 \left(\frac{1}{32}\right) = -5$

14) $\log_8 512 = 3$

15) $\log_2 4 = 2$

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

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$\log_4 2 = \frac{1}{2}$

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$\log_{11} 121 = 2$

3) $2^4 = 16$

$\log_2 16 = 4$

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

$\log_3 \left(\frac{1}{81}\right) = -4$

5) $3^5 = 243$

$\log_3 243 = 5$

7) $64^{\frac{1}{3}} = 4$

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

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$7^2 = 49$

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$2^{-5} = \frac{1}{32}$

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$2^2 = 4$

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$8^3 = 512$

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

$81^{\frac{1}{2}} = 9$

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