

Logarithmic & Exponential Form

Numerals: S3

Express each equation in logarithmic form.

1) $3^4 = 81$

2) $64^{\frac{1}{6}} = 2$

3) $4^{-2} = \frac{1}{16}$

4) $2^7 = 128$

5) $6^2 = 36$

7) $8^3 = 512$

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Express each equation in logarithmic form.

9) $\log_7 343 = 3$

11) $\log_4 64 = 3$

13) $\log_{25} 5 = \frac{1}{2}$

14) $\log_6 \left(\frac{1}{36}\right) = -2$

15) $\log_4 16 = 2$

16) $\log_{49} 7 = \frac{1}{2}$

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Express each equation in logarithmic form.

1) $3^4 = 81$

$\log_3 81 = 4$

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$\log_{64} 2 = \frac{1}{6}$

3) $4^{-2} = \frac{1}{16}$

$\log_4 \left(\frac{1}{16}\right) = -2$

4) $2^7 = 128$

$\log_2 128 = 7$

5) $6^2 = 36$

$\log_6 36 = 2$

7) $8^3 = 512$

$\log_8 512 = 3$

Express each equation in exponential form.

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$7^3 = 343$

11) $\log_4 64 = 3$

$4^3 = 64$

13) $\log_{25} 5 = \frac{1}{2}$

$25^{\frac{1}{2}} = 5$

15) $\log_4 16 = 2$

$4^2 = 16$

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$6^{-2} = \frac{1}{36}$

16) $\log_{49} 7 = \frac{1}{2}$

$49^{\frac{1}{2}} = 7$

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