Precalculus Logarithm evaluation, basic

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If x > 0, then $\log_a x$ is the exponent to which the base a must be raised to give x.

Example

Evaluate:

- 2 $\log_{25} 5 = \frac{1}{2}$ because $25^{\frac{1}{2}} = \sqrt{25} = 5$.
- $\log_{10} 0.001 = -3$ because $10^{-3} = 0.001$.