

**7-5****Exponential and Logarithmic Equations and Inequalities**Objective

Solve exponential and logarithmic equations and equalities.  
Solve problems involving exponential and logarithmic equations.

**Solve and check.**

$9^{8-x} = 27^{x-3}$

$8^{2+x} = 16^{x+6}$

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**Solve and check.**

$4^{x-1} = 5$

$2^{3x} = 15$

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**Solve and check.**

$\log_6(2x-1) = -1$

$\log_4 100 - \log_4(x+1) = 1$

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**Solve and check.**

$\log_5 x^4 = 8$

$\log_{12} x + \log_{12}(x+1) = 1$

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