Algebra II Auch

Objectives

- Solve exponential and logarithmic equations and inequalitiesSolve problems involving exponential and logarithmic equations.

Vocabulary

- Exponential equation
- Logarithmic equation

a)
$$8^x = 2^{x+6}$$
 b) $5^{x-2} = 200$

Try it!

Solve and check.

a) $3^{2x} = 27$	b)	$7^{-x} = 21$	c)	$2^{3x} = 15$
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Section 7.5 Date:

Example 2

Solving Logarithmic Equations

a)
$$\log_3(x-5) = 2$$
 b) $\log 45x - \log 3 = 1$

c)
$$\log_4 x^2 = 7$$
 d) $\log x + \log(x+9) = 1$

Try it!

Solving Logarithmic Equations

a)
$$3 = \log 8 + 3\log x$$
 b) $2\log x - \log 4 = 0$

Homework 7.3 pg 526 #2-7, 9-16