



Math Virtual Learning

College Prep Algebra

April 21, 2020



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Lesson: April 21, 2020

Objective/Learning Target:
How to solve logarithmic equations with
logarithms on both sides (common bases)

Let's Get Started:

Have you ever thought about the **=** symbol?

This symbol means whatever is on the left side has **EXACTLY** the same value of whatever is on the right side!

$$\log_7 3x = \log_7 15$$

$$3x = 15$$

$$\frac{3x}{3} = \frac{15}{3}$$

$$x = 5$$

Since the \log_7 is the same on both sides, the $3x$ and 15 must be the same value too!

Lesson:

To learn how to solve logarithmic equations, you will need to remember your properties of logarithms from the lesson on 4/14.

Watch these videos below to see how to solve logarithmic equations that have a **log on BOTH sides of the =**

- [Video 1](#)
- [Video 2](#) watch from 6:00 to the end

Practice: Use the calculator linked here.
[Scientific Calculator](#)

[Practice Problems with Answers:](#)
[#13-18 ONLY](#)

Additional Practice

Solving with logs on both sides

#1-18 ONLY

(answers included)