

Math Virtual Learning

College Prep Algebra

April 17, 2020



College Prep Algebra Lesson: April 16, 2020

Objective/Learning Target: How to solve exponential equations without logarithms

Let's Get Started: Did you ever realize you could write 64 as three different exponentials? $64 = 8^2 = 4^3 = 2^6$

Lesson:

Recognizing that numbers like 64 can be represented by exponentials is key to solving exponential equations if you don't want to use logarithms.

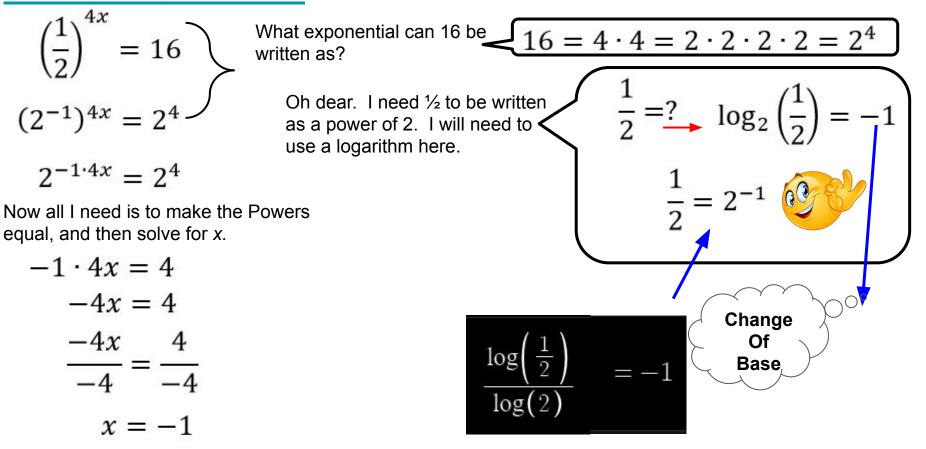
So to solve an equation like

$$\left(\frac{1}{2}\right)^{4x} = 16$$

we need to figure out if 16 can be rewritten as an exponential.

Watch this <u>VIDEO</u> to see how to solve without logs, then we'll solve this equation on the next slide

Lesson: Here is the link for the calculator in the video. Scientific Calculator



Practice:

To practice solving exponential equations with logarithms, use the worksheet link and the scientific calculator link below.

Solving Exponential Equations without logs AND Answer Key



Additional Practice

Khan Academy Online Practice Problems

IXL free online practice: YOU NEED THE CALCULATOR