



Lesson 13: Changing the Base

Student Outcomes

- Students understand how to change logarithms from one base to another.
- Students calculate logarithms with any base using a calculator that computes only logarithms base 10 and base e .
- Students justify properties of logarithms with any base.

Lesson Notes

The lesson begins by showing how to change logarithms from one base to another and develops properties of logarithms for the general base b . We introduce the use of a calculator instead of a table to approximate logarithms, and then we define $\ln(x) = \log_e(x)$. One goal of the lesson is to explain why the calculator only has a **LOG** and an **LN** key. Students solve exponential equations by applying the appropriate logarithm (F-LE.A.4).

Materials

Students will need access either to graphing calculators or computer software facilities such as the Wolfram|Alpha engine for finding logarithms with base 10 and base e .

Classwork

Example 1 (5 minutes)

The purpose of this example is to show how to find $\log_2(x)$ using $\log(x)$.

- We have been working primarily with base 10 logarithms, but in Lesson 7 we defined logarithms for any base b . For example, the number 2 might be the base. When logarithms have bases other than 10, it often helps to be able to rewrite the logarithm in terms of base-10 logarithms. Let $L = \log_2(x)$, and show that $L = \frac{\log(x)}{\log(2)}$.

- Let $L = \log_2(x)$.

Then $2^L = x$.

Taking the logarithm of each side, we get

$$\log(2^L) = \log(x)$$

$$L \cdot \log(2) = \log(x)$$

$$L = \frac{\log(x)}{\log(2)}$$

Therefore, $\log_2(x) = \frac{\log(x)}{\log(2)}$.

Scaffolding:

- Students who struggle with the first step of this example might need to be reminded of the definition of logarithm from Lesson 7: $L = \log_b(x)$ means $b^L = x$. Therefore, $L = \log_2(x)$ means $2^L = x$.
- Advanced learners may want to immediately start with the second part of the example, converting $\log_b(x)$ into $\frac{\log(x)}{\log(b)}$. Alternatively, students may explore the scale change by $\log(b)$ by finding different values of $\log(b)$ and discussing the effects on the graph of $y = \log(x)$.

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