



Slide the Eraser

Exponential and Logarithmic Functions

Question #1

Write in logarithm form

$$7^2 = 49$$

Write in exponential form

$$\log_3 243 = 5$$

Question #2

Find the inverse of $y = \ln(x - 2)$

Question #3

Without a calculator, evaluate:

$$\log_{\frac{1}{2}} 8 = ?$$

Question #4

Classify the following as growth or decay. Identify the percent of increase or decrease.

$$f(x) = (0.2)^x$$

Question #5

Without a calculator, solve for x.

$$4^{5x - 2} = 16$$

Question #6

Solve for x.

$$\log_4(10x + 6) = 1$$

Question #7

Describe the transformation, state the domain, range and equation of the asymptote.

$$f(x) = \log_2(x - 3) + 1$$

Question #8

Solve for x .

$$\frac{x}{2x + 7} = \frac{x - 5}{x - 1}$$

Question #9

Order the logarithms from least value to greatest value.

$$\log_5 23$$

$$\log_6 38$$

$$\log_7 8$$

$$\log_2 10$$