Pre-Calculus/Trig 3 Logarithms Worksheet

Name KEY

7. $10^{-3} = 0.001$ 109.001 = -3

 $8. e^0 = 1 ln1 = 0$

Rewrite the exponential equation in logarithmic form.

2.
$$6^{-2} = \frac{1}{36} \frac{109 \cdot 30 = -2}{109 \cdot 30} = -2$$

9. 4" = 1 109 " W = V

6. 814 = 3 loga, 3 = 4

$$\frac{3}{10.9^2} = 27 - \frac{109}{109} = 27 = \frac{3}{2}$$

Rewrite the logarithmic equation in exponential form.

3.
$$\log_x 13 = 5$$
 $\chi^5 = 13$

4.
$$\log_2 \frac{1}{8} = -3$$
 $2^{-3} = \frac{1}{8}$

6. ln 143 = x ____ e^x = 143

8.
$$\ln x = 14$$
 $e^{14} = X$

9.
$$\log \frac{1}{100} = -2$$
 $10^{-2} = \frac{1}{100}$

Use your calculator to evaluate each logarithm. Round to four decimal places.

Practice C 4 3 Logarithmic Functions Answer Key

Thomas Griffiths

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