

QUIZ

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Rewrite each equation in logarithmic form.

1) $13^b = 98$

Rewrite each equation in exponential form.

2) $\log_y x = 17$

Condense each expression to a single logarithm.

3) $6\log z + \frac{\log x}{2}$

Expand each logarithm.

4) $\log_5 (z\sqrt[3]{x \cdot y})$

Evaluate each expression.

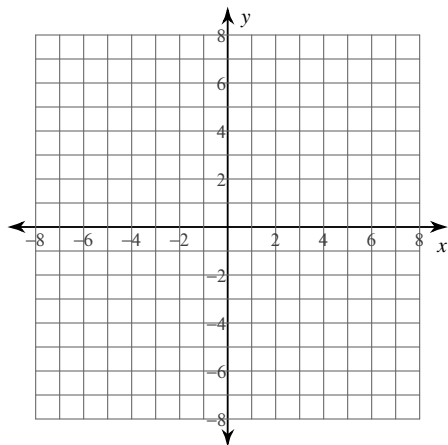
5) $\log_2 \frac{1}{64}$

Solve each equation.

6) $\log_9 (x + 24) + \log_9 x = 2$

Identify the domain and range of each. Then sketch the graph.

7) $y = \log_{\frac{1}{3}} (x + 1) - 4$

**Use the properties of logarithms and the values below to find the logarithm indicated. Do not use a calculator to evaluate the logs.**

8) $\log_5 6 \approx 1.1$

$\log_5 9 \approx 1.4$

$\log_5 7 \approx 1.2$

Find $\log_5 \frac{6}{25}$

Answers to QUIZ

1) $\log_{13} 98 = b$

2) $y^{17} = x$

3) $\log(z^6\sqrt{x})$

4) $\log_5 z + \frac{\log_5 x}{3} + \frac{\log_5 y}{3}$

5) -6

6) $\{3\}$

7)

8) -0.9

