

6.

Solve the equation for x.

$$x = \log_9 27$$

The solution set is $\{\square\}$.

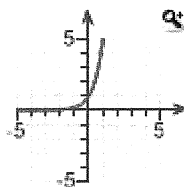
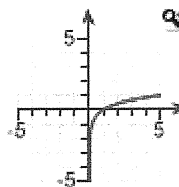
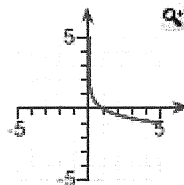
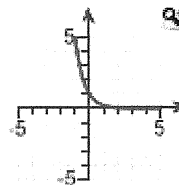
(Simplify your answer. Type an integer or a fraction.)

7.

Graph the equation on paper, then choose the correct graph.

$$y = \log_5 x$$

Choose the correct graph.

 A. B. C. D.

8.

Use the properties of logarithms to express the following as a sum or difference of logarithms.

$$\log_3 \sqrt{\frac{xp}{7}}$$

Choose the correct form.

A. $\frac{1}{2} \log_3 x + \log_3 p - \log_3 7$

B. $\frac{1}{2} \log_3 x + \frac{1}{2} \log_3 p - \frac{1}{2} \log_3 7$

C. $\frac{1}{2} \log_3 x + \frac{1}{2} \log_3 p + \frac{1}{2} \log_3 7$

9.

Express as a single logarithm.

$$\log_r G + \log_r N$$

Choose $\log_r G + \log_r N$ expressed as a single logarithm.

A. $N \log_r G$

B. $\log_r \frac{G}{N}$

C. $\log_r G^N$

D. $\log_r GN$