

Assessment - 6.1

Knowledge/Understanding Write the letter of your choice on the line.

____ 1. The value of $\log_b b^a$ is
 A. a B. b C. 1 D. b^a E. none of these

____ 2. The value of $\log(-10)$ is
 A. -10 B. -1 C. $\frac{1}{10}$ D. $-\frac{1}{10}$ E. none of these

____ 3. The value of $\log_b \frac{1}{\sqrt{b}}$ is
 A. \sqrt{b} B. $\frac{1}{2}$ C. -2 D. $-\frac{1}{2}$ E. none of these

Application

1. Evaluate exactly without using a calculator.

$\log \sqrt[7]{10} =$

$\log_7 \left(\frac{1}{49} \right) =$

$\log_8 2^5 =$

$\log_3 \left(\frac{81}{\sqrt{27}} \right) =$

$\log_{\frac{1}{100}} 1000 =$

$\log_9 \sqrt{27} =$

2. State a possible equation for the function shown.




