

## Additional Vocabulary Support

### Exponential Functions

Choose the word from the list that best matches each phrase.

constant

exponential

function

independent

1. A term that does not contain a variable \_\_\_\_\_
2. Not depending on another for its value \_\_\_\_\_
3. A relation between two sets in which one element of the second set is assigned to each element of the first set \_\_\_\_\_
4. A pattern of growth with a constant multiplier \_\_\_\_\_

Use a word from the list above to complete each sentence.

5. In the equation  $y = 4 + x^2$ , 4 is a(n) \_\_\_\_\_.
6. The equation  $y = 5^x$  is a(n) \_\_\_\_\_ function.
7. In the function  $y = 2^x - 3$ , the exponent is \_\_\_\_\_.
8.  $f(x)$  is the notation for a \_\_\_\_\_.

Circle the constant and underline the independent variable.

9.  $\left(\frac{1}{2}\right)^x$
10.  $1.5^x$
11.  $2^x$
12.  $3^x$

### Multiple Choice

13. Which of the following is *not* an exponential function?

A  $y = 5^x$

B  $y = 5x - 1$

C  $y = 5^{x-1}$

D  $y = 5^{x+1}$