

## Lesson 5.1 • Exponential Functions

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

1. Evaluate each function at the given value. Round to four decimal places if necessary.

a.  $r(t) = 325(1 + 0.035)^t$ ,  $t = 8$

b.  $f(x) = 59.5(1 - 0.095)^x$ ,  $x = 10$

2. Record the next three terms for each sequence. Then write an explicit function for the sequence.

a.  $a_0 = 12$   
 $a_n = 0.8a_{n-1}$  where  $n \geq 1$

b.  $u_0 = 50.5$   
 $u_n = 2.1u_{n-1}$  where  $n \geq 1$

3. Evaluate each function at  $x = 0$ ,  $x = 1$ , and  $x = 2$  and write a recursive formula for the pattern. Then, indicate whether each equation is a model for exponential growth or decay.

a.  $f(x) = 2000(0.9)^x$

b.  $f(x) = 3000(1 + 0.001)^x$

c.  $f(x) = 0.1(1 - 0.5)^x$

4. Calculate the ratio of the second term to the first term, and express the answer as a decimal value. State the percent increase or decrease.

a. 80, 60

b. 36, 32

c. 63, 100.8

5. Rohit bought a new car for \$17,500. The value of the car is depreciating at a rate of 16% a year.

- a. Write a recursive formula that models this situation. Let  $u_0$  represent the purchase price,  $u_1$  represent the value of the car after 1 year, and so on.

- b. Define variables and write an exponential equation that models this situation.

# Exponential Applications Worksheet 7 6

**D Keegan**



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