

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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### Exponential Functions

Evaluate each function at the given value. Round to the nearest hundredth if needed.

1)  $g(n) = 3 \cdot \left(\frac{7}{6}\right)^n$  at  $n = -3$

8)  $h(n) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^n$  at  $n = -2$

2)  $h(x) = 9 \cdot \left(\frac{1}{2}\right)^x$  at  $x = 3$

9)  $g(y) = \frac{2}{7} \cdot 2^y$  at  $y = 2$

3)  $f(n) = \frac{4}{7} \cdot \left(\frac{1}{2}\right)^n$  at  $n = -3$

10)  $f(y) = \frac{3}{2} \cdot 2^y$  at  $y = -2$

4)  $h(n) = \frac{1}{7} \cdot 2^n$  at  $n = 2$

11)  $f(x) = 4 \cdot 2^x$  at  $x = -2$

5)  $g(y) = \frac{9}{3} \cdot \left(\frac{1}{2}\right)^y$  at  $y = 2$

12)  $h(y) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^y$  at  $y = 3$

6)  $h(x) = 5 \cdot 2^x$  at  $x = 3$

13)  $g(y) = \frac{1}{2} \cdot \left(\frac{2}{3}\right)^y$  at  $y = -2$

7)  $f(x) = 3 \cdot \left(\frac{5}{7}\right)^x$  at  $x = 3$

14)  $g(y) = 8 \cdot \left(\frac{1}{2}\right)^y$  at  $y = -2$

