

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

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

## Exponential Functions

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

1)  $h(n) = 3 \cdot 2^n$  at  $n = -3$

8)  $g(y) = \frac{1}{7} \cdot 2^y$  at  $y = -2$

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

9)  $g(x) = 2 \cdot \left(\frac{9}{6}\right)^x$  at  $x = -3$

3)  $h(y) = \frac{3}{7} \cdot \left(\frac{1}{2}\right)^y$  at  $y = -2$

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

4)  $g(n) = 9 \cdot \left(\frac{7}{2}\right)^n$  at  $n = -2$

11)  $f(x) = 6 \cdot 2^x$  at  $x = -2$

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

12)  $f(x) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^x$  at  $x = -2$

6)  $h(n) = \frac{6}{7} \cdot 2^n$  at  $n = -2$

13)  $h(y) = \frac{8}{5} \cdot 2^y$  at  $y = -2$

7)  $f(y) = \frac{3}{2} \cdot \left(\frac{4}{8}\right)^y$  at  $y = -2$

14)  $g(y) = \frac{1}{2} \cdot \left(\frac{4}{3}\right)^y$  at  $y = -2$

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## Exponential Functions

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

1)  $h(n) = 3 \cdot 2^n$  at  $n = -3$

0.38

8)  $g(y) = \frac{1}{7} \cdot 2^y$  at  $y = -2$

0.04

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

1.13

9)  $g(x) = 2 \cdot \left(\frac{9}{6}\right)^x$  at  $x = -3$

0.59

3)  $h(y) = \frac{3}{7} \cdot \left(\frac{1}{2}\right)^y$  at  $y = -2$

1.71

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

4.5

4)  $g(n) = 9 \cdot \left(\frac{7}{2}\right)^n$  at  $n = -2$

0.73

11)  $f(x) = 6 \cdot 2^x$  at  $x = -2$

1.5

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

0.11

12)  $f(x) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^x$  at  $x = -2$

4.5

6)  $h(n) = \frac{6}{7} \cdot 2^n$  at  $n = -2$

0.21

13)  $h(y) = \frac{8}{5} \cdot 2^y$  at  $y = -2$

0.4

7)  $f(y) = \frac{3}{2} \cdot \left(\frac{4}{8}\right)^y$  at  $y = -2$

6

14)  $g(y) = \frac{1}{2} \cdot \left(\frac{4}{3}\right)^y$  at  $y = -2$

0.28