

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

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

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

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

## Exponential Functions

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

1)  $h(n) = 5 \cdot 2^n$  at  $n = 5$

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

2)  $h(x) = \frac{1}{2} \cdot \left(\frac{6}{3}\right)^x$  at  $x = 2$

9)  $f(y) = \frac{1}{5} \cdot 2^y$  at  $y = 4$

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

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

4)  $g(n) = \frac{7}{3} \cdot 2^n$  at  $n = 4$

11)  $g(y) = 8 \cdot \left(\frac{9}{2}\right)^y$  at  $y = 3$

5)  $f(n) = 8 \cdot 2^n$  at  $n = 2$

12)  $f(y) = \frac{2}{4} \cdot 2^y$  at  $y = 2$

6)  $h(n) = \frac{7}{9} \cdot \left(\frac{1}{2}\right)^n$  at  $n = 3$

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

7)  $g(y) = \frac{1}{9} \cdot 2^y$  at  $y = 2$

14)  $g(y) = \frac{8}{4} \cdot \left(\frac{2}{9}\right)^y$  at  $y = 2$



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## Exponential Functions

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

1)  $h(n) = 5 \cdot 2^n$  at  $n = 5$   
160

8)  $g(n) = \frac{1}{2} \cdot \left(\frac{5}{3}\right)^n$  at  $n = 2$   
1.39

2)  $h(x) = \frac{1}{2} \cdot \left(\frac{6}{3}\right)^x$  at  $x = 2$   
2

9)  $f(y) = \frac{1}{5} \cdot 2^y$  at  $y = 4$   
3.2

3)  $h(n) = 9 \cdot \left(\frac{1}{2}\right)^n$  at  $n = 2$   
2.25

10)  $f(y) = 2 \cdot \left(\frac{1}{2}\right)^y$  at  $y = 3$   
0.25

4)  $g(n) = \frac{7}{3} \cdot 2^n$  at  $n = 4$   
37.33

11)  $g(y) = 8 \cdot \left(\frac{9}{2}\right)^y$  at  $y = 3$   
729

5)  $f(n) = 8 \cdot 2^n$  at  $n = 2$   
32

12)  $f(y) = \frac{2}{4} \cdot 2^y$  at  $y = 2$   
2

6)  $h(n) = \frac{7}{9} \cdot \left(\frac{1}{2}\right)^n$  at  $n = 3$   
0.1

13)  $g(n) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^n$  at  $n = 3$   
0.02

7)  $g(y) = \frac{1}{9} \cdot 2^y$  at  $y = 2$   
0.44

14)  $g(y) = \frac{8}{4} \cdot \left(\frac{2}{9}\right)^y$  at  $y = 2$   
0.1

