

Name : _____ Score : _____

Teacher : _____ Date : _____

Exponential Functions

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

1) $f(n) = 3 \cdot \left(\frac{2}{9}\right)^n$ at $n = 4$

8) $f(x) = \frac{7}{8} \cdot 2^x$ at $x = 6$

2) $h(y) = 8 \cdot 2^y$ at $y = 6$

9) $g(x) = \frac{5}{3} \cdot 2^x$ at $x = 3$

3) $f(y) = 9 \cdot \left(\frac{2}{3}\right)^y$ at $y = 6$

10) $f(y) = \frac{1}{2} \cdot \left(\frac{8}{3}\right)^y$ at $y = 3$

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

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

5) $g(y) = \frac{1}{4} \cdot 2^y$ at $y = 3$

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

6) $f(y) = \frac{3}{2} \cdot \left(\frac{6}{5}\right)^y$ at $y = 2$

13) $h(x) = \frac{1}{5} \cdot 2^x$ at $x = 3$

7) $f(n) = \frac{3}{2} \cdot \left(\frac{8}{9}\right)^n$ at $n = 2$

14) $g(x) = 7 \cdot 2^x$ at $x = 4$

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Exponential Functions

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

1) $f(n) = 3 \cdot \left(\frac{2}{9}\right)^n$ at $n = 4$

0.01

8) $f(x) = \frac{7}{8} \cdot 2^x$ at $x = 6$

56

2) $h(y) = 8 \cdot 2^y$ at $y = 6$

512

9) $g(x) = \frac{5}{3} \cdot 2^x$ at $x = 3$

13.33

3) $f(y) = 9 \cdot \left(\frac{2}{3}\right)^y$ at $y = 6$

0.79

10) $f(y) = \frac{1}{2} \cdot \left(\frac{8}{3}\right)^y$ at $y = 3$

9.48

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

0.75

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

0.06

5) $g(y) = \frac{1}{4} \cdot 2^y$ at $y = 3$

2

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

0.58

6) $f(y) = \frac{3}{2} \cdot \left(\frac{6}{5}\right)^y$ at $y = 2$

2.16

13) $h(x) = \frac{1}{5} \cdot 2^x$ at $x = 3$

1.6

7) $f(n) = \frac{3}{2} \cdot \left(\frac{8}{9}\right)^n$ at $n = 2$

1.19

14) $g(x) = 7 \cdot 2^x$ at $x = 4$

112