

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponential Functions

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

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

8) $f(n) = 6 \cdot \left(\frac{1}{2}\right)^n$ at $n = -2$

2) $h(x) = \frac{5}{6} \cdot 2^x$ at $x = 4$

9) $f(x) = \frac{1}{8} \cdot 2^x$ at $x = 6$

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

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

4) $f(y) = \frac{6}{4} \cdot \left(\frac{3}{7}\right)^y$ at $y = -3$

11) $f(y) = \frac{5}{6} \cdot \left(\frac{1}{2}\right)^y$ at $y = -3$

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

12) $g(n) = \frac{6}{2} \cdot 2^n$ at $n = -3$

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

13) $f(x) = 7 \cdot 2^x$ at $x = 2$

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

14) $g(n) = 9 \cdot \left(\frac{8}{6}\right)^n$ at $n = -3$



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

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

4.5

8) $f(n) = 6 \cdot \left(\frac{1}{2}\right)^n$ at $n = -2$

24

2) $h(x) = \frac{5}{6} \cdot 2^x$ at $x = 4$

13.33

9) $f(x) = \frac{1}{8} \cdot 2^x$ at $x = 6$

8

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

0.08

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

0.5

4) $f(y) = \frac{6}{4} \cdot \left(\frac{3}{7}\right)^y$ at $y = -3$

19.06

11) $f(y) = \frac{5}{6} \cdot \left(\frac{1}{2}\right)^y$ at $y = -3$

6.67

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

13.5

12) $g(n) = \frac{6}{2} \cdot 2^n$ at $n = -3$

0.38

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

0.5

13) $f(x) = 7 \cdot 2^x$ at $x = 2$

28

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

36

14) $g(n) = 9 \cdot \left(\frac{8}{6}\right)^n$ at $n = -3$

3.8

