Name : _____ Score : _____

Teacher : _____ Date : _____

Exponential Functions

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

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

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

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

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

5) $h(x) = \frac{4}{5} \cdot 2^{x}$ at $x = -3$

6) $h(x) = 8 \cdot \left(\frac{5}{6}\right)^{x}$ at $x = 4$

7) $f(x) = \frac{5}{4} \cdot \left(\frac{2}{6}\right)^{x}$ at $x = -3$

8) $f(x) = 3 \cdot \left(\frac{9}{4}\right)^{x}$ at $x = -3$

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

10) $f(x) = 5 \cdot \left(\frac{1}{2}\right)^{x}$ at $x = -2$

11) $g(x) = \frac{6}{3} \cdot 2^{x}$ at $x = 3$

12) $f(n) = 7 \cdot 2^{n}$ at $n = 5$

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

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

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Teacher : _____ Date : _____

Exponential Functions

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

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

1.19

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

4.5

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

0.02

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

0.06

5) $h(x) = \frac{4}{5} \cdot 2^{x}$ at $x = -3$

0.1

6) $h(x) = 8 \cdot \left(\frac{5}{6}\right)^{x}$ at $x = 4$

3.86

7) $f(x) = \frac{5}{4} \cdot \left(\frac{2}{6}\right)^{x}$ at $x = -3$

33.75

8) $f(x) = 3 \cdot \left(\frac{9}{4}\right)^{x}$ at $x = -3$

0.26

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

9.14

10) $f(x) = 5 \cdot \left(\frac{1}{2}\right)^{x}$ at $x = -2$

20

11) $g(x) = \frac{6}{3} \cdot 2^{x}$ at $x = 3$

16

12) $f(n) = 7 \cdot 2^{n}$ at $n = 5$

224

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

1

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

0.05