Exponential Functions

Math

Name _____ Class _____ Date _____

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

$y(s) = \frac{1}{2} \times (\frac{3}{8})^{s}$ at $s = 3$

$b(m) = \frac{7}{8} \times (\frac{2}{5})^{m}$ at $m = 3$

$d(n) = \frac{3}{4} \times (\frac{3}{4})^{n}$ at $n = -4$

$a(p) = 9 \times (\frac{1}{7})^{p}$ at $p = -4$

$u(v) = \frac{2}{3} \times (\frac{1}{3})^{v}$ at $v = 3$

$x(e) = \frac{1}{9} \times (\frac{3}{5})^{e}$ at $e = 3$

$v(g) = \frac{7}{8} \times 2^{g}$ at $g = -4$

$e(f) = \frac{5}{6} \times (\frac{1}{3})^{f}$ at $f = -4$

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

$r(w) = \frac{2}{5} \times 5^{w}$ at $w = 2$

Exponential Functions - Answer Key

Math

Name _____ Class _____ Date _____

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

$y(s) = \frac{1}{2} \times (\frac{3}{8})^s$ at $s = 3$

$y(3) = 0.01$

$b(m) = \frac{7}{8} \times (\frac{2}{5})^m$ at $m = 3$

$b(3) = 0.06$

$d(n) = \frac{3}{4} \times (\frac{3}{4})^n$ at $n = -4$

$d(-4) = 2.37$

$a(p) = 9 \times (\frac{1}{7})^p$ at $p = -4$

$a(-4) = 21609$

$u(v) = \frac{2}{3} \times (\frac{1}{3})^v$ at $v = 3$

$x(e) = \frac{1}{9} \times (\frac{3}{5})^e$ at $e = 3$

$v(g) = \frac{7}{8} \times 2^g$ at $g = -4$

$v(-4) = 0.05$

$e(f) = \frac{5}{6} \times (\frac{1}{3})^f$ at $f = -4$

$e(-4) = 67.5$

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

$t(-2) = 4.69$

$r(w) = \frac{2}{5} \times 5^w$ at $w = 2$

$r(2) = 10$