

Name: _____ Date: _____ Class/Period: _____

Logarithms Quiz

- Evaluate the expression $\log_2 \left(\frac{1}{4}\right)$
 - $\frac{1}{2}$
 - 2
 - $-\frac{1}{2}$
 - 2
- Solve $\log_3 x = 4$
 - $\sqrt[3]{4}$
 - 81
 - 64
 - $\frac{3}{4}$
- Use a calculator to evaluate $\log 0.125$
 - 0.903
 - 1.25
 - 0.903
 - 1.25
- Solve $x^{2/3} = 18$
 - 12
 - 1.255
 - 76.37
 - 6.86
- Solve $\log_5 75 = x$
 - 2.682
 - 0.373
 - 375
 - 15
- Find $\ln 700$ rounded to four decimal places
 - 6.5511
 - 6.5511
 - 6.5512
 - 6.5510
- Solve $e^{3x} = 10$ for x to four decimal places
 - 0.3333
 - 0.7675
 - 1.2040
 - 0.5229
- Evaluate the expression $\log_3 \left(\frac{1}{27}\right)$
 - 3
 - $\frac{1}{3}$
 - 3
 - $-\frac{1}{3}$
- Solve $\log_2 x = 5$ for x .
 - 10
 - $\sqrt{5}$
 - 25
 - 32
- Solve $10^{6x-5} = 1/1,000$
 - $\frac{1}{3}$
 - $\frac{3}{5}$
 - $\frac{4}{3}$
 - $\frac{5}{3}$
- Solve $\log_2 (x + 3) - \log_2 5 = \log_2 13$
 - 126
 - 123
 - 65
 - 62
- Solve $6^{3x} = 25$ to four decimal places
 - 0.9333
 - 0.1855
 - 0.5988
 - 1.3888
- Solve $\ln e = \ln x$ for x
 - 1
 - e
 - 0
 - undefined