Use a calculator to estimate log 15.

1.1761

1.5

0.6667

2.708

Use a calculator to estimate ln 3

0.4771

20.0855

1.0986

1000

Use a calculator to estimate $e^{2.3}$.

0.8329

9.9742

199.5262

0.3617

Estimate the solution to the exponential equation using logarithms.

$$7^x = 16$$

1.1293

0.8451

1.2041

1.4248

Use logarithms to estimate the solution to the exponential inequality.

$$7^{p+2} \leq 13^{5-p}$$

$p \geq -14.4303$

$p \leq 0.2688$

$p \leq 1.9803$

$p \leq 7.6001$

Use a calculator to estimate $\log_4 30$.

1.4771

3.4012

0.6021

2.4534

Which of the following is equal to $\frac{\ln 15}{\ln a}$? Assume $a \neq 1$

$\log 15 - \log a$

$\log_a 15$

$\log_{15} a$

$\ln 15 - \ln a$

Write the logarithmic equation in exponential form.

$$\ln 16 \approx 2.7726$$

$e^{16} \approx 2.7726$

$10^{2.7726} \approx 16$

$e^{2.7726} \approx 16$

$10^{16} \approx 2.7726$

Solve the equation. Round to the nearest ten-thousandth.

$$3e^{x} - 1 = 0$$

$x = 1.0986$

$x = -1.0986$

$x = -0.9102$

$x = 0.9102$

Solve the inequality. Round to the nearest ten-thousandth.

$$e^{4x} \geq 16$$

$x \geq 0.6931$

$x \geq 2$

$x \geq 4$

$x \geq -1.2274$