

General Algebra II Worksheet #5 Unit 12 Selected Solutions

Evaluate each of the following without the use of a calculator.

1. $\text{Log } 10 = \underline{1}$
 $\text{Log}_{10} 10$

2. $\ln e = \underline{1}$
 $\text{Log}_e e$

3. $\text{Log } 100 = \underline{2}$
 $100 = 10^2$

4. $\text{Log } 0.01 = \underline{-2}$
 $0.01 = 10^{-2}$

7. $\ln e^2 = \underline{2}$
 $2\ln e$

8. $\ln e^{-2} = \underline{-2}$
 $-2\ln e$

Use a calculator to evaluate each of the following. Express your answers rounded to the nearest hundredth.

11. $\text{Log } 30 = \underline{1.47}$

12. $\text{Log } 0.5 = \underline{-0.30}$

15. $\ln 30 = \underline{3.40}$

16. $\ln 0.5 = \underline{-0.69}$