### Lesson 14 Practice Problems

1. Solve each equation without using a calculator. Some solutions will need to be expressed using log notation.
2. Solve . Show your reasoning.
3. Write two equations—one in logarithmic form and one in exponential form—that represent the statement: “the natural logarithm of 10 is ”.
4. Explain why .
5. If , what is the value of ? Explain how you know.

* (From Unit 4, Lesson 9.)

1. For each logarithmic equation, write an equivalent equation in exponential form.

* (From Unit 4, Lesson 10.)

1. The function is given by .
   1. What is the continuous growth rate of ?
   2. By what factor does grow when the input increases by 1?

* (From Unit 4, Lesson 13.)



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