**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Advanced Algebra Review**

**Chapter 5 Review**

 Question #1: Question #2:

 Rewrite in log form. Evaluate the following expression.

 Question #3: Question #4:

 Rewrite in exponential form. Solve for x. Round to the nearest tenth.

 Question #5: Question #6:
 Condense and simplify. Rewrite in exponential form.

 Question #7: Question #8:

 Expand. Which expression is equal to x?

 a) ln e5 c) log x b) ln ex d) x log 2

Question #9: Question #10:

 Solve the following for x. Solve for x.

 Question #11: Question #12:

Solve for k. Check your solutions. Solve the equation and round to the hundredths place if necessary.

 Question #13: Question #14:

 Solve for x. Solve for x.

 Question #14: Question #15:

 Solve for x. Solve for x. Check your solutions.

Question #16: Question #17:

Susie invests $500 in an account that The number of bacteria present in a Petri

is compounded continuously at an annual dish can be modeled by the function

interest rate of 5%, according to the formula when is the number of

.Approximately how many years bacteria present in the Petri dish

will it take for Susie’s money to double? after hours. Using this model,

determine, to the nearest hundredth, the

number of hours it will take for to reach

30,700?