**Object-Oriented Programming Lab #05**

**Department: Student ID: Name:**

A. Exercises (Write the questions down on your answer sheet)

(pp. 153-157), Exercises 1, 3, 8, 12, 14, 15, 19, 22  
(write output analysis for all exercises)

B. Exercises (Write the questions down on your answer sheet)

(pp. 173-177), Exercises 2, 3, 5  
(write output analysis for all exercises)

C. Additional exercises (Write the questions down on your answer sheet)

C-1. Euler's number, *e*, is used as the base of natural logarithms. It can be approximated using the following formula.



Write a program that approximate *e* using a loop that terminates when the difference between two successive values of *e* is less than 0.00001.

C-2. Write a program that reads a positive integer less than 1,000,000 from the keyboard and then prints it out in reverse. For example, if the user enters 2576, it prints 6752.

\* Write a for loop that will produce each of following sequences:

C-3. 6, 8, 10, 12, ..., 60

C-4. 7, 9, 11, 13, …, 67

C-5. The sum of the numbers between 1 and 15 inclusive.

C-6. The first 50 numbers in the series, 1, 4, 7, 10, ….