

Lab Assignment 3 - 01/29/2009

Name: \_\_\_\_\_

Section: 8:00 11:00 12:30 6:30

**Problem 1: Loading values from input**

Create a code file called `input.c` and create a program that emulates the following:

Give me an integer: [X]  
 Give me a decimal: [Y]  
 The value of X times Y is Z  
 The natural logarithm of X over Y is W

([\*] means input a value named \* here)

Show the instructor your code. Be sure to watch for rounding errors!

**Problem 2: Computation**

In the following table, fill in the code necessary to calculate the mathematical formulas presented. Feel free to test your statements in a code file.

Formula	Code Expression
$X^2 + 5X + Y$	
$\sqrt{\frac{X-Y}{X+Y}}$	
$e^{-X/Y} + e^{YX}$	
$\frac{\sin(\frac{1}{X})}{\tan(Y)} \cos(X)$	
$(\ln((1 + X)^3))^2$	