ENGINEER 1D04

Engineering Computation

McMaster University, Winter 2010

Lab 3 Marked Assignment 1 Solution
Friday Lab

Revised: 27 January 2010

Correctness

Circle Radius Input	Tube Radius Input	Output 1	Output 2
2.5	4.2	414.5234	1658.0935

Design Question

Coding the formula just once using a separate method will:

1. Decrease the size of the code.

2. Increase the understandability of the code.

3. Increase the maintainability of the code.

4. Increase the reusability of the code.

Testing Question

Only one test case for admissible inputs is necessary to exercise the code for the `Calculate` button since the code does not contain any conditionals or loops. (Note: Additional test cases could be used for inadmissible inputs such as negative numbers and empty text boxes.)