

ENGINEER 1D04
Engineering Computation
McMaster University, Winter 2010

Lab 7 Marked Assignment 3 Solution
Thursday Lab

Revised: 5 March 2010

Correctness

Interval	Result
$[0, 3.14]$	“Likely Attains an External Maximum”
$[-3.14, 3.14]$	“Definitely does not Attain an External Maximum”

Design Question

If the array of inputs and the array of outputs are displayed together in a table the user can easily match an input to the function with the corresponding output of the function.

Testing Question

An example of an closed interval where f does not attain an external maximum is $[-\pi, \pi]$ (because the interior of this interval contains a local maximum of the function).