

ENGINEER 1D04
Engineering Computation
McMaster University, Winter 2010

Lab 7 Marked Assignment 3 Solution
Wednesday Lab

Revised: 4 March 2010

Correctness

Interval	Result
$[0, 3.14]$	“Definitely Attains an Internal Maximum”
$[3.14, 6.28]$	“Likely does not Attain an Internal Maximum”

Design Question

No. If the method `f` implemented a different continuous function, the program should work correctly without any other modifications.

Testing Question

An example of an closed interval where f does not attain an external maximum is $[\pi, 2\pi]$ (because the interior of this interval contains a local minimum of the function).