**CSC150 Program #1** Name: Brandon Amundson

**Code Correctness:**

\_\_\_\_\_\_55\_\_\_\_\_\_ ( 60 ) Input & Validation  
\_\_\_\_10\_\_\_\_ ( 10 ) Display Program Information

\_\_\_\_10\_\_\_\_ ( 10 ) Get endpoints ( 0, 5 )

\_\_\_\_10\_\_\_\_ ( 10 ) Reject out of order, display message, exit ( 5, 0 )

\_\_\_\_10\_\_\_\_ ( 5 ) Get tolerance ( 0.0001 )

\_\_\_\_5\_\_\_\_ ( 5 ) Reject tolerance <= 0, display message, exit ( -0.3 )

\_\_\_\_0\_\_\_\_ ( 5 ) Get iterations ( 100 )

\_\_\_\_0\_\_\_\_ ( 5 ) Reject iterations <= 0, display message, exit ( -100 )

\_\_\_\_10\_\_\_\_ ( 10 ) Test for solvability - f(a) ∗ f(b) < 0, display message ( 15, 30 )

\_\_\_\_\_\_40\_\_\_\_\_\_ ( 40 ) Correct Solution  
\_\_\_\_30\_\_\_\_ ( 30 ) Newton’s method correctly implemented – (a + b)/2 first guess

\_\_\_\_10\_\_\_\_ ( 10 ) Each iteration displayed

**Coding Standards:**

\_\_\_\_\_\_60\_\_\_\_\_\_ ( 100 ) Documentation (Doxygen scoresheet)

**Correctness \* .75 \_\_\_\_\_71\_\_\_\_\_**

**Coding Standard \* .25 \_\_\_\_\_15\_\_\_\_\_**

**Total:** \_\_\_\_\_81\_\_\_\_\_ ( 100 Points)

Documentation grade: (Points are all or nothing unless otherwise stated)

Program Header

Main Page \_\_0\_\_\_ (5)

Course Information

Author \_\_5\_\_\_ (5)

Date Due \_\_5\_\_\_ (5)

Professor \_\_5\_\_\_ (5)

Course \_\_5\_\_\_ (5)

Location \_\_5\_\_\_ (5)

Program Information (0, 5, 10, 15 will be assigned)

Details \_\_10\_\_\_ 15

Compiling

Compile & usage \_\_0\_\_\_ 5

Todo, Bugs, and Modifications

Bugs

Todo

Timeline \_\_\_5\_\_ 10

**Total \_\_40\_\_\_ (60)**

Function Header (all functions must have the following, if one function is missing, no points will be assigned.

Author \_\_5\_\_\_ 5

Description \_\_5\_\_\_ 5

Params (when needed) \_\_5\_\_\_ 5

Returns (when needed) \_\_5\_\_\_ 5

**Total \_\_\_0\_\_ (20)**

Others

Meaningful variable names \_\_\_5\_\_ (5)

Whitespace around functions,

blocks of code and operators \_\_\_5\_\_ (5)

Global constants document

(if they have a variable do not give credit) \_\_\_5\_\_ (5)

Comments, must be adequate to cover the algorithm

If the code was removed \_\_\_5\_\_ (5)

**Total \_\_\_20\_\_ (20)**

Other items not mentioned above \_\_\_\_\_ ( )

Files named correctly ( -5 )

**Documentation Total \_\_\_60\_\_ ( 100 )**