**Peer Review:**

Reviewer Name: Alejandra Valenzuela

1. What was the function supposed to be called?

falsePosition - correct

1. What is the function supposed to do?

The function was supposed to find the root of a function given some constraints.

1. If inputs and outputs were specified by the assignment, what should the first line of the function file look like?

function [root,fx,ea,iter]=falsePosition(func,xl,xu,es,maxit,varargin)

Before you look at the code:

1. Investigate the help text by typing

>> help function\_name

Does the help text adequately explain the function?

The help text is definitely very clear and concise. It fully explains what the function does, what each variable means, and clarifies any restrictions. It also explains what needs to be done in order for the code to work which is very useful.

1. Is there something that you would have changed or added?

No, the help text explained everything in an efficient and concise manner.

1. Try and run the algorithm. Consider finding the lowest positive root of the mathematical function: Do you get the right answer?

Yes, the code worked and I got the actual root answer.

Review the code

1. If you DIDN’T get the right answer output from the function, can you

see why in the code? What is the problem?

I got the right answer.

1. Is the code well commented? Explain / give an example

The function is definitely well commented on almost every section of code.

Ex: while abs(ea)>abs(es) && iter<maxiter

%keep previous root guess value after first iteration

1. Are the function variables named appropriately or are they confusing?

The function variables are appropriate because they were the names of the required variables.

1. Would it be easy to modify / expand the code based on the clarity and conciseness of the code? Give suggestions / examples. Try and “break” the program.

Yes, the code gives a clear, step by step explanation of what is being done, so it would be very easy to modify it in a certain spot where one would find necessary. For example, on line 38, we could further explain why that code is important.

1. Call it with something non-sensical. Call it with something that you KNOW shouldn’t work. Does it give a good error? Give an example of what you tried and an error.

I tried “falsepose” and it gave me the error message “undefined function or variable ‘falsepose’ showing it gives a good error message.

1. Look at the main loop / decision in the algorithm. Can you follow it?

Yes, everything was in order and would make sense to someone who understands what needs to be done in order to use the false position method.

1. Does it make sense? Is it well commented and is it easy to follow along?

Yes, there is comments on almost every section of code that explains why that section is necessary and what it does.

1. Is there anywhere you can reduce the memory (fewer variables) or computational cost (better loops, calculations) of the algorithm?

The function didn’t have built in double functions which may have made it work a little faster.

1. Any other general comments or suggestions?

The code was really easy to follow and well commented. Great job!