# By submitting this assignment, all team members agree to the following:  
# “Aggies do not lie, cheat, or steal, or tolerate those who do”  
# “I have not given or received any unauthorized aid on this assignment”  
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Document Lab 11 part 1

f). When using a function with no real roots such as x^2-3x+4, the program runs indefinitely

g). Using function: x^2-16x+32:

a). Do guesses converge?

Guess of 3.0 -> 2.708497377870819

Guess of 4.0 -> 2.708497377870819

Guess of 32.0 -> 13.29150262212918

Roots are within the margin of error for the estimation

b). How many iterations do different guesses require:

Guess of 32.0 -> 7 guesses

Guess of 4.0 -> 5 guesses

Guess of 2.0 -> 4 guesses

c). Newton’s method requires fewer iterations.

d). How many times is the function is evaluated in each method:

i) Evaluated twice per iteration in the Bisection method

ii) Evaluated once per iteration in the Newton method

iii) Concur with previous assertion that the Newton method is converges faster, because the evaluation function is called fewer times.