

Mathematics Department

 Math 330

 HW3

 Student name: ………………………… ID no.: …… sec……..

consider the equation

1. (a) Estimate the same root of the above equation using Newton iteration,

 with error , starting with = 3.

(b)Find the order of convergence of the above iteration both theoretically and numerically .

1. Solve the following system using Newton Method, using three digits rounding

Starting with (2,1)

3) Find the point on the graph of that is closest to (2.1,.5)