

Assignment # 4

Q1. Use Newton Raphson method to find solutions accurate to within 10^{-4} for the following problems:

1) $x^3 - 2x^2 - 5 = 0$

a) $[1]$

b) $[4]$

2) $x - \cos x = 0$

a) $[0]$

b) $[\frac{\pi}{2}]$

Find out the efficiency of the initial bounds used in part 1 and 2. Also comment on the efficiency .