

$$\Rightarrow f(x) = xe^{x} - 1 = 0 \quad [0,1]$$

$$f(0)=(-1), f(1)=1.718$$

$$y = 3.36$$

 $y = 1.86$
 $z = 0.86$

7) Lorgest eigen value = 3 Corresponding eigen vector= 8) $U_1 = (-3.2482)$ $U_3 = (-10.7491)$ $U_{4} = (-5.4993)$ $U_2 = (-5.4987)$ a = 1, b = 2, c = 110) Refer to file (same file