$\gamma(x) = 2 \times (1-x)$ $g(0) = 0 \longrightarrow g(0) = 2.0(1-0) = 0$ な(主) 二 主 --- な(主) = こも(1-七) = 方、 BY THEOREM EXESTENCE & UNIQUENESS OF A FIXED POINT IN LECTURE 5, A3: 18'(x) | < 1. FOR 4 X E [a, b] 1% (PO 20) 1 > 1 SO FIXED POINT ITEMPTON WILL NOT CONVERGE TO ROOT X = 0 FIXED POINT ITERATION WILL CONNERGE TO ROOT X = 1 BECAUSE OF A, & A, OF THE ABOVE MENTIONED 3 THEOREM WE EXPECT LINEAR ORDER OF CONVERGENCE