$x_{n+1} = -16 + 6x_n + \frac{12}{x_n}$  $q(x) = -16 + 6x + \frac{12}{x}$ 1 of IS CONTINUOUS ON [1,3] 1 9:[1.3] -> [1.3]  $||g'(x)|| = |6 - \frac{12}{2}|$ FOR CONVERGENCE TO & W/ P. E[1,3] 18(1) < 1 19'(1) = |6-12|=6>1 SO g(x) DOES NOT CONVERGE FOR Y X E [1,3]