



or, $e_{i+1} = g'(R) e_i$ e_i $e_{i+1} = x_f - x_{i+1} + x_i$ $e_{i+1} = e_{i+1} + x_i$ $e_{i+1} = e_{i+1} + x_i$ This shows that the orror will decrease with each iteration only if > The equation (4) implies the following

(2) Error decreases if g'(R) < 1.

(2) Error grows if g'(R) > 1.

(3) If g'(R) is positive then the convergence is monotonic.

(4) If g'(R) is negative then the convergence is oscillatory.

5) The error at this iteration is roughly proportional to (or zero than)

The error in the previous claps. So, fined point iteration method is Linsarry Convergent