2.a
$$\times_{n+1} = -16 + 6 \times_{n} + \frac{12}{\times_{n}}$$
, $\alpha = 2$
 $q(x) = -16 + 6 \times_{n} + \frac{12}{\times_{n}}$

1 of IS continuous on [1,3]

11 $q:[1,3] \longrightarrow [1,3]$

11 $|q'(x)| = |6 - \frac{12}{\times^{2}}|$

FOR CONVERGENCE TO $\alpha = \alpha = 1$
 $|q'(1)| = |6 - 12| = 6 > 1$

So $q(x)$ poes not converge For $\forall x \in [1,3]$