Sequence christich /appessin

$$f(x) = \Re \sigma(\Re x_7 + \Re r) (\Re x_{7-1} + \Re r) (\Im x_1 + \Re r) - \Re r + R r$$

$$0 < \tanh(a) \le 1$$

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· explory graduat may happen who MUU >71.

$$\|\frac{\partial f}{\partial f}\| \rightarrow 0 \dots \|\frac{\partial f}{\partial f}\| \rightarrow 0$$

Unea shortouts.

$$h_{t} = r(Uh_{t+1} + Wx_{t} + b) + \underbrace{\begin{cases} t^{-1} \\ \frac{1}{2} \\ \frac{1}{2} \end{cases}}_{h_{t}} = \underbrace{\begin{cases} t^{-1} \\ \frac{1}{2} \\ \frac{1}{2} \end{cases}}_{h_{t}-t^{-1}+1} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}}_{h_{t}-t^{-1}} + \underbrace{\frac{1}{2} h_{t}}_{h_{t}-t^{-1}}_{h_{t}-$$

a Resided ownechi 3 . gm (a)= Ia · g+ (a)=0 f- 41 < t-1 h_t = r (U 1^{t+} + W x^t + b) + h_{t-1}
= r (U h_{t-2} + W x_{t-1} + b) + h_{t-2}
:: h. = o(Nh+++Wx++b) + o(Uh+2+Wx+++b) +h+-= O(Uh + + + Wx+ + b) + P(Uh+- + Wx+- + tb) + P(Uh+- + twx + + tb) E E (Uhtint WKtitb) 11 hell = = 1 o(Nheint Wxerth) & gen h. = u. o of (Nht-+Wx++b) + (1-u+)ohan Me = ou (Nuhta + Wn X+ + bn) ∈ [0,1] d Tupdate gute.

ht = Ut of (U (reo tt)+ Wx++b) + (1-4+)0hou rt = (Urhen + Wrx++b) + (50,116.