Exzil > Bn= X 5n = On-1+a(1-5n-1)-0 with 00=0 an+1= an + p(Rn-an) $= \alpha_n + \alpha_n (R_n - \alpha_n)$ $=O_{n}\left(1-\frac{1}{2n}\right)+\frac{1}{2n}\left(R_{n}\right)$ 0300Kg $Q_{n+1} = Q_n \left(1 - \alpha \right) + R_n \alpha$ $Q_{n-1} + \alpha \left(1 - Q_{n-1} \right) + R_n \alpha \left(1 - Q_{n-1} \right)$ Onti (On-1+x(1-On-1)=On (On-1-xOn-1)+Rnx. $Q_{n+1} \left(O_{n-1} + \alpha \left(1 - O_{n-1} \right) = \alpha R_n + Q_n O_{n-1} \left(1 - \alpha \right) \right)$ On Qn+1= x Rn+ Qn Dn-1 (1-x). $\frac{\partial n}{\partial n} = \frac{\partial n}{\partial n} + \frac{\partial n}{\partial n} = \frac{\partial n}{\partial n} + \frac{\partial n}{\partial n} +$ On an+1=(1-x) 500,+ > x (1-x) R? Since, Oo=0, thus On Qu+1 = > x(1-x) K; Thus we can clearly see, that Onti is independent of Quord's secondy weighted average,