[2008: 2.1] Aos $X = \alpha(N_{\rightarrow} - N_{\leftarrow}) = 2N_{\rightarrow} - N$ 8= -3F 7 $\mathcal{N}(x) = \frac{N!}{N \Rightarrow ! (N - N_2!)} = \frac{N!}{\left[\frac{1}{2}(N + \frac{x}{\alpha})\right]!} \left[\frac{1}{2}(N - \frac{x}{\alpha})\right]!}$ S(x) = ln n = NlnN- N, lnN, - (N-N) lh (N-N,) = NLN - = (N=3) h (N=3) h (N-3) h (N-3) Spen ner du= Tas-fax =0 ds = & = Tds $\Rightarrow \beta = -T \left| \frac{1}{aa} \ln \left(\frac{1}{2} \left(N + \frac{x}{a} \right) \right) + 1 - \frac{1}{aa} \ln \left(\frac{1}{2} \left(N - \frac{x}{a} \right) \right) - 1 \right|$ $\beta(x) = -\frac{1}{2a} \ln \left(\frac{N + \frac{x}{a}}{N - \frac{x}{a}} \right)$ N+x > N-x -> 4 (-) >6 > fx-T<0 coagnor offer cooline macipe $f(x) = \frac{1}{2a} \ln \left(\frac{1 + \frac{x}{Na}}{1 - \frac{x}{Na}} \right) \approx \frac{1}{2a} \left[\frac{x}{Na} + \frac{x}{Na} \right] \left[\frac{1}{Na} + \frac{x}{Na} \right] \left[\frac{1}{Na} + \frac{x}{Na} \right]$ Vn2 X f x-X مام حالم ا