Lec3. Bisection Method · Rate of convergence. Ex < = log n+1 $\alpha_n \rightarrow \log 1 = 0$. $(=\alpha)$ an = log(1+th) Consider: 1+x < ex hog (Itx) < X log (1+ f) < f. $\alpha_n \leqslant \frac{1}{n}$ Thus, in this example, Bn=カラロ (other chircos of K, in one possible).

1000 $\frac{EX}{dn} = \frac{n+1}{n^2} \leq \frac{n+1}{n} = \frac{2}{n} = \frac{1}{n} \Rightarrow \alpha = 0$ il. lan-a. < KBn. where K=2, Bn=n. sin(h) = 8in(o) EX $f(h) \xrightarrow{h \to 0} \frac{d}{dh} \frac{8in(h)}{h} = -coo(0) = 1$ 19(h)-L) = sin(h)-sin(d)-h = EX+O(h3)]-0=1X = 0 Ch2

