ANA U1 B.) ZEC $E=N \cup \{0\}$ $f_n: E \to C$ for $n \in E$ $f_n(K) = \frac{1}{K^n} \binom{K}{n} \geq n$ 22: 2 of a Konvergial als Frankhiosen neine absolut 11 In 1/00 = sup | kn (K) 2 " |= sup | kn n! (k-n)! 2" | = 121" Sup (K-n)! Kn = 121" Sup (K-n) (K-n-1) 21 Kn $= \frac{121^n}{121^n} \cdot \frac{121^n}{121^n} \times \frac{121^n}$ ges: Grenzfunttion von E Pn Σθη = Σ τη (h) 2 = Σ (z) h (k) · 1 k-n = (z+1) k SN= 2 In NEW XK=K KEN lim lim SN (XX) = lim lim SN (XX) lim 2 Kn (K) 2 n lim lim 2 Kn (K) 2 n $\lim_{K \to \infty} \left(\frac{2}{K} + 1 \right)^{K} = 1 = \exp(0) = \exp(2)$ $\lim_{K \to \infty} \left(\frac{2}{K} + 1 \right)^{K} = 1 = \exp(0) = \exp(2)$ $\lim_{k \to 0} \left(\frac{1}{\xi} + 1 \right)^k = \lim_{k \to 0} \left(1 + \frac{1}{\xi} \right)^{\frac{k}{2}} = e^{\frac{k}{2}} = e^{\frac{k}{2}} = e^{\frac{k}{2}}$ => 2 = 1 = exp(z) = lim lim 2 Kn(h) zh = lim Z lim x (k) · z" = Z z". lim & (K) => lim xn (x) = 1