94: Jenseh Inequality  $F(\xi,\lambda;X_i) \leq \xi \cdot Q(X_i) \lambda_i$   $\Delta_X \left\{ \lambda : \lambda; \geq 0, \xi : \lambda; \geq 1 \right\}$ we'll prove it by induction: tot K=2 f (>1 ×1+ (1-x) x2) ≤ >1 f(x1) + (1-2) f(x2) & y defention 455 4 miny (x) = ( \( \)  $F\left(\sum_{i=1}^{k}\lambda_{i}\lambda_{i}\right)=F\left(\sum_{i=1}^{k}\lambda_{i}\lambda_{i}\right)\left(1-\lambda_{k+1}\right)+\lambda_{k+1}\lambda_{k+1}$ = 1 1-1x40 ((x)(x-1x+1) + 6 (x+1) x x+1 = 26(x) x: