* (C) is x in let, f(n,r) — døstil de de f Ji) (8<1) De 8 Ces / Lies / il per N-v il ligo in il sie la sita - cila () f(n-r,0) ? , sie n-r () نار تولی و لها وز دلع: $f(n,r) = \binom{n}{r} f(n-r,0)$ r is by the f(n,r) " 1600 f(n,0) = 16

f(n,0) is two : f(n,0) is the Da 5.40-1 1 " - 10 José / La Il I Da del poe del del il orielle Links Ent (IC [N]) A, idjoi

(Coston I Lied of Sh 1,2,...,n (AINAJ #Ø Tul juis $|A_{\rm I}| = (n - |{\rm I}|)^{\frac{1}{0}}$ -16'0; il 1 / A I / A I lo 00 (17) 6 July K Els de per de de de la como $\mathcal{D}_{n} = \mathcal{N}_{o}^{l} + \mathcal{D}_{o}^{l} + \mathcal{D}_{o}$

$$= n! - \binom{n}{1} (n-1)! + \binom{n}{2} (n-2)! - \dots + (-1)! \binom{n}{n}$$

$$= n! \cdot \binom{1}{1!} + \frac{1}{2!} - \dots + (-1)! \frac{1}{n!}$$

$$= n! \cdot \binom{1}{1!} + \frac{1}{2!} - \dots + (-1)! \frac{n}{n!}$$

$$= \lim_{n \to \infty} \frac{f(n,r)}{n!} = \lim_{n \to \infty} \frac{n!}{(n-r)! \cdot r!} \times D_{n-r}$$

$$= \lim_{n \to \infty} \frac{D_{n-r}}{n!}$$

$$= \frac{1}{r!} \lim_{n \to \infty} \left(\frac{1}{0!} - \frac{1}{1!} + \frac{1}{2!} - \dots + (-1)! \frac{n}{n!} \right)$$

$$= \frac{1}{r!} e^{-1} \times 1228 - 21803$$

$$Q. E. D$$