(5) Tyuns Pn(k) -- Muso repermendon, nomonte uveron poloso k venoglermenon moren. Ceesobamenso beparman und pobra k mucher bonazzan b den kondermen:  $\frac{\operatorname{fu(k)}}{n!} = p_{\kappa}$ b greznen N= 2 KPK

Haughn Pk: Moreyaan us n k nogbummen moren  $C'_n = \frac{n!}{(n-k)!k!}$  mocodamu zamen neight unno repelmanobox, representativousin omensme n-k remembre des venglumnsm morek, ono boynamalmor repres y Sepannojman

$$(N-k) = (N-k)! \left(\frac{1}{0!} - \frac{1}{1!}\right)$$

$$\frac{n-k}{(n-k)!}$$

$$= \int q_n(k) = \frac{n!}{k!(n-k)!} (n-k)! \times \frac{k!(n-k)!}{k!}$$

$$\times \left( \begin{array}{c} N-k \\ \sum_{m=0}^{m} \frac{(-1)^m}{m!} \end{array} \right) =$$

$$\left(\begin{array}{c}
\frac{1}{k!} \left(\begin{array}{c}
w-k \\
\frac{(-1)^m}{m!}
\end{array}\right)$$

$$\overline{N} = \frac{N}{2} = \frac{1}{2} \left( \frac{-1}{m} \right)^{m}$$

$$= \sum_{k=1}^{N} \frac{1}{m-k} \frac{1}{m-k} \frac{1}{m!}$$

$$= \sum_{k=1}^{N} \frac{1}{m-k} \frac{1}{m!} \frac{1}{m!}$$

$$= \sum_{k=0}^{N-1} \frac{1}{m-k-1} \frac{1}{m!} \frac{1}{m!}$$

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$$= \sum_{k=0}^{n-1} \frac{1}{2^{k}} \sum_{k=0}^{n-1} \frac{1}{(n-k)!} = \sum_{k=0}^{n-1} \frac{1}{2^{k}} \sum_{k=0}^{n-$$

1 mileuro.