Kombinatorika

$$M = 1.2.3.5...n (n \ge 2)$$

$$\frac{(n+2)!}{(m+1)!} = m+2$$

Permutaciok

$$P_n = n!$$

ann

Variaciok

$$A = \frac{1}{1}, 2, 3, 5$$
 $A = \frac{1}{1}, 2, 3, 5$
 $A =$

$$V_{n}^{12} = m(m-1)(m-2)...(m-12+1)$$

$$\sqrt{k^2 = \frac{m!}{(n-l_2)!}}$$

$$\left(\frac{3}{7} = \frac{\sqrt{3}}{\sqrt{3}} = \frac{1}{3}$$

hen siemit a entrere

$$C_n = 1 = C_n$$

$$\binom{1}{n} = m = \binom{m-1}{n}$$

$$\binom{2}{n} = \frac{n(n-1)}{2} = \binom{n-2}{n}$$

$\binom{0}{n} + \binom{1}{n} + \binom{n}{n+1} + \binom{n}{n+2} = 2^{n}$ $\binom{1}{n} + \binom{3}{n} + \binom{5}{n+1} = 2^{n-1}$

Pascal azonossag, Pascal haromszog

$$C_{n} = C_{n-1} + C_{n-1}$$

Newton binominalis keplete

$$(a+b)^{m} = a^{m} + (a^{m-1} \cdot b + (a^{2}a^{m-2}b^{2} + ... + (a^{m-1}a^{m-1}b^{2} + ... + a^{m-1}a^{m-1}b^{2} + ... + (a^{m-1}a^{m-1}b^{2} + ... + a^{m-1}a^{m-1}b^{2} + ... + a^{m-1}a^{m-1}b^{2}$$