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# MATEMATIKA

JAN KRUTIŠ

$\mathbb{Z} \supset \mathbb{N} \cup \mathbb{Q}$   
 $\log_a r \cdot s = \log_a r + \log_a s$   
 $\bar{X} = \frac{\sum_{j=1}^n x_j \cdot n_j}{n}$   
 $y = \sin x$   
 $y = \cos x$   
 $\sqrt{\log \frac{1-x}{1+x}} = \sqrt{\frac{1-\cos x}{1+\cos x}}$   
 $z = a + bi$   
 $z^n = |z|^n (\cos \varphi + i \sin \varphi)^n$   
 $P(A) = \sum p(\omega)$   
 $S_n = a_1 \alpha^{n-1} + a_2 \alpha^{n-2} + \dots + a_{n-1} \alpha + a_n$   
 $V(k, n) = \frac{n!}{(n-k)!}$   
 $\vec{u} + \vec{v} = \vec{w}$   
 $e = 2,718281828$   
 $x_{1,2} = \frac{-b \pm \sqrt{D}}{2a}$   
 $y = ax^2 + bx + c$   
 $\int f(\varphi(x)) \varphi'(x) dx = \int f(u) du$   
 $(a+b)^n = \binom{n}{0} a^n b^0 + \binom{n}{1} a^{n-1} b^1 + \dots + \binom{n}{n} a^0 b^n$   
 $\lim_{n \rightarrow \infty} a_n = a$   
 $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = \frac{\lim_{n \rightarrow \infty} a_n}{\lim_{n \rightarrow \infty} b_n} = \frac{a}{b}$   
 $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = \frac{1}{5} \log_a \sqrt[r]{r}$   
 $P(A \cap B) = P(A) \cdot P(B)$   
 $P(A|B) = \frac{P(A \cap B)}{P(B)}$   
 $z_1 \cdot z_2 \cdot \dots \cdot z_n = \sqrt[n]{\prod_{i=1}^n z_i}$   
 $y = x^2$   

A \ B	1	0
1	1	0
0	0	1