Input Examples 2

Mathematical formela	Input in MAR	Remark
$2a + 3b - 1$	2*a+3*b-1 oder 2a+3b-1	
$(a + b)(a - b)$	(a+b)*(a-b)	
$A + 0.000005$	A+.000005 oder A+5.0E-6	Scientific format
$a + 1000000$	a+1000000 oder a+1.0E6	
x^2	x^2	Raise to the power
$(a \cdot b)^n$	(a*b)^n	
$a^{(m-n)}$	a^(m-n)	
x^{5ab-c}	x^(5*a*b-c)	
$\sqrt{a}$	sqr(a) oder a^(1/2) oder a^0.5	Square root
$\sqrt[n]{a}$	a^(1/n)	Note: a^1/n is wrong
$\frac{a^3}{\sqrt[4]{a}}$	(a^3)/(a^.25) oder (a^3)/(a^(1/4))	
$\left\lvert \left(a - {}^{b}/_{c}\right) \right\rvert$	Abs((a-b/c))	Absolute value
$5!$	5!	The factorial „ **!** “
$(m - n)!$	(m-n)!	Example for m=10 and n=6: (10-6)!=4!= 24
${}^{5!}/_{(n-3)!}$	5!/(n-3)!	
$\frac{n!}{r!\,m!}$	n!/((r!)*(m!))	
$\sin x$	sin(x)	Trigonometric function
${}^{\sin x}/_{\cos 2x}$	Sin(x)/cos(2x)	
$\sin\frac{\alpha + \beta}{2}$	sin((a+b)/2)	
$\sin a \cdot \cos b$	sin(a)*cos(b)	
$\cos^{-1} x$	Arccos(x)	
$\frac{22}{4 + \sqrt{5}}$	22/(4+sqr(5))	
$\frac{3 + x^2}{2 - \sqrt{1 - x^2}}$	(3+x^2)/(2-sqr(1-x^2))	
$n \cdot \log_e x$	n* ln(x)	Natural logarithm, i.e. logarithm to the base e
$n \cdot \log_{10} x$	n*lg(x)	Logarithm to the base 10
$n \cdot \log_2 x$	n*lb(x)	Logarithm to the base 2
$\log_a b$	ln(b)/ln(a)	or lg(b)/lg(a) or lb(b)/lb(a)
$\log_e \sin x$	ln(sin(x))	Combined function
$\log_{10} \log_{10}\left(3 + 2\sqrt{\sin x}\right)$	lg(lg(3+2*sqr(sin(x))))	
$\log_e\left(x + \sqrt{x^2 + 1}\right)$	ln(x+sqr(x^2+1))	