

Arithmetic operators and special characters

Character	Input in MAR	Result in MAR	In words
+	4+3	= 7	Plus (addition)
-	4-3	= 1	Minus (subtraction)
*	4*3	= 12	Multiplication
/	5/4	= 1.25	Division
\	4\3	= 1	Integer division
٨	4^3	= 64	Raise to the power
!	4!	= 24	Factorial
()	3*(3+4)	= 21	Brackets – change of the order of precedence or
	sin(90)	= 1	used with functions
,	X=2+3 'Comment	X= 5 'Comment	To initiate a comment, use the single apostrophe
	X=1+2 'easy peasy	X= 3 'easy peasy	

Standard functions in MAR

Function	In MAR	In words	
sin x	sin(x)	Sine of x	
cos x	cos(x)	Cosine of x	
tan x	tan(x)	Tangent of x	
cot x	cot(x)	Cotangent of x	
arcsin x	arcsin(x)	Arcsine of x	
arccos x	arccos(x)	Arccosine of x	
arctan x	arctan(x)	Arctangent of x	
arccot x	arccot(x)	Arccotangent of x	
sinh x	sinh(x)	Hyperbolic sine of x	
cosh x	cosh(x)	Hyperbolic cosine of x	
tanh x	tanh(x)	Hyperbolic tangent of x	
coth x	coth(x)	Hyperbolic cotangent of x	
ar sinh x	arsinh(x)	Inverse hyperbolic sine of x	
ar cosh x	arcosh(x)	Inverse hyperbolic cosine of x	
ai cosii x		Defined for $(x \ge 1)$	
ar tanh x	artanh(x)	Inverse hyperbolic tangent of x	
ai taiii x		Defined for $(x < 1)$	
ar coth x	arcoth(x)	Inverse hyperbolic cotangent of x	
ai cotti x		Defined for $(x > 1)$	
log _e x	ln(x)	Logarithm of x to the base e (natural logarithm)	
log ₁₀ x	lg(x)	Logarithm of x to the base 10	
log ₂ x	lb(x)	Logarithm of x to the base 2	
x e ^x	abs(x)	Absolute value	
e ^x	exp(x)	Natural exponential function (e=2.71828)	
\sqrt{x}	sqr(x)	Square root of x	

Predefined names in MAR

Constant	In MAR	Meaning
π	PI	$\pi = 3.14159$

Number symbols (variables or constants)

Number symbols, variables and constants, can consist of characters and numbers. The length of names is not restricted. Symbols must start with an alphabetic character A-Z. No special characters are accepted. Example: enter "My Symbol = 2" or "S1 = 2" or - with a comment - "S1 = 2 ' my first symbol". After that you can calculate with S1.