JavE - Mathematical Expressions Editor

This editor is a new feature of JavE. It is by no means finished: There are some bugs and the syntax is not complete.

However I decided to add it to JavE 2.0 for testing.

For questions, bug reports and any kind of comments feel free to post to markus@jave.de

Syntax

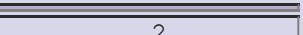
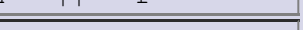
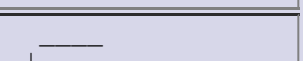
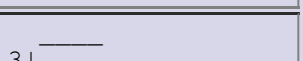
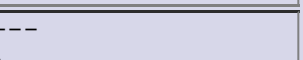
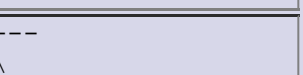
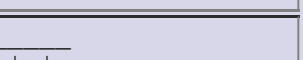
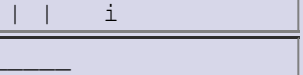
Operation	Syntax	Example	
addition	**a+b**	a+b	`a + b`
subtraction	**a-b**	a-b	`a - b`
multiplication	**a*b**	a*b	`a * b`

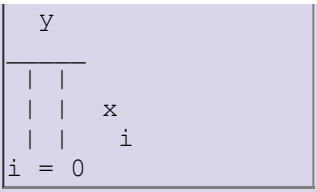
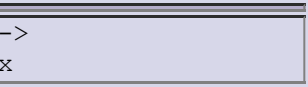
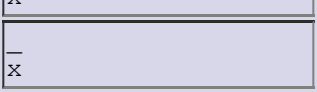
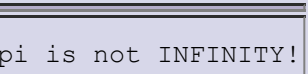
division	**a/b**	x/{x+1}	`  x`
			`-----`
			`x + 1`

	a!	3! =2	`3! = 2`
	a^b	x^2	`  2` `x`
	a_b	x_i	`x` `  i`

invisible brackets	**{a}**	x/{x+1}	`  x`
			`-----`
			`x + 1`

round brackets	**(a)**	3*(x+y)	`3 * (x + y)`
pointed brackets	**<a>**	<x+y>	`<x + y>`
ceil	**ceil(a)**	ceil(x*pi)	`_          _` `|        __  |`

			
floor	**floor(a)**	floor(x*pi)	
pi	**pi**	4*pi*r^2	
infinity	**INFINITY**	n->INFINITY	
binomial	**binomial(a;b)**	binomial(49;6)	
(square) root	**sqrt(a)**	sqrt(pi)	
	sqrt(b;a)	sqrt(3;pi)	
sum	**sum(a)**	sum(x_i)	
	sum(b;a)	sum(i;x_i)	
	sum(b=c..d;a)	sum(i=2..y;x_i)	
product	**prod(a)**	prod(x_i)	
	prod(a)	prod(i;x_i)	

	prod(a)	prod(i=0..y;x_i)	
logarithm	**log(b;a)**	log(3;x)	
vector/arrow	**vec(a)**	vec(x)	
overline	**overline(a)**	overline(x)	
underline	**underline(a)**	underline(x)	
text	**"text"**	"pi is not INFINITY!"	
greek letters	**alpha | Alpha | beta | ... | Omega**	alpha	
		Sigma	
		varrho	

- Equations, implications: = > < <= >= <> or >< or != => ->
- Brackets: [a] |a|
- Complex operators: lim(n->0;x) matrix(rows,cols, x;y;...)

More Complex Examples

f_{1,2,3} (PI)=binomial(1,2,3;4)/PI