Table 1: Handy LaTeX Math Things!

LaTeX ($\backslash$___$)	output	Purpose/usage	LyX comment
Underscore x_{i}	x_i	subscript	LyX does not require squigglies in GUI
Caret x^{2}	x^2	superscript	LyX does not require squigglies in GUI
sum	$\sum$	summation begin	
sum_{i=1}^{N}	$\sum_{i=1}^{N}$		LyX does not require squigglies in GUI
ldots	$\ldots$		
cdots	$\cdots$		
vdots	$\vdots$		
ddots	$\ddots$		
times	$\times$		
sim	$\sim$	large centered tilde	