Examples of macros in latex.

To save some time when writing too many expressions with exponents is by defining a new command to make simpler:

$$(x+y)^2$$

And even the exponent can be changed

$$(y+y)^4$$

Let's analyse the syntax of the line $\mbox{newcommand{\plusbinomial}[3][2]{(#2 + #3)^#1}:}$

\plusbinomial

This is the name of the new command.

- [3] The number of parameters the command will take, in this case 3.
- [2]
 Is the default value for the first parameter. This is what makes the first parameter op
 (#2 + #3)^#1

This is what the command does. In this case it will put the second and third parameters