

Using Sage

inputting a matrix :

" $A = \text{matrix}([[\text{contents of row1}], [\text{cont. row2}], \dots])$ "

Reduce a matrix :

to reduce matrix B
first input the matrix B
then

" $B.\text{rref}()$ "

inverse of a matrix :

input the matrix A

" $A.\text{inverse}()$ "

algebra :

as expected

* note : write out implicit multiplication
do : " $5 * A$ " not " $5A$ "

do : " $A * (B - C)$ " not " $A(B - C)$ "

transpose :

" $A.\text{transpose}()$ " or " $A.T$ "