

Mendel university Brno
Dpt. of Mathematics

Gauss elimination

R. Mařík

- The calculator allows to do row operation on matrix in a comfortable way.²
The following operations are supported
 - Dividing and multiplying one row by a nonzero number. You have to choose a row by clicking the radiobutton in the first column, write a number and press the button “Multiply” or “Divide”.
 - Changing two rows. Choose the rows by clicking in the first and second column with radiobuttons and press the button “Swap”.
 - Adding a multiple of one row (red marked) to a nonzero number of another row (green marked). The red row remains without any change.
- You cannot use fractions. It is up to your responsibility to do row operations which yield integers only.
- The aim of the calculator is to practise the sequence of row operations which yield row echelon form of the matrix in a fast and comfortable way. You can focus on choosing optimal next step only and you need not to bother with own computations.
- You should use your pencil and paper rather than this calculator. This calculator should be used when you learn the row operations and when you check your results.

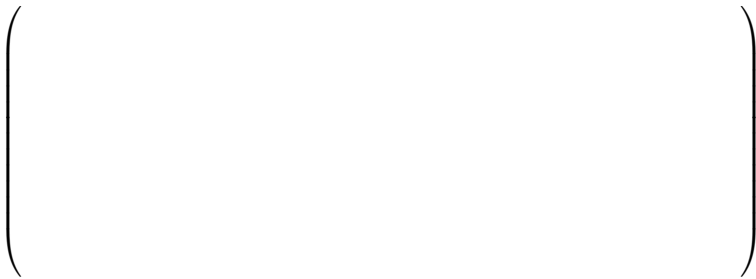
Managing operator.

- Use the number of rows and columns first. You will be moved to the next side. On this page fill the numbers into matrix and perform the first row operation. The numbers in the matrix will be locked and you cannot change the matrix without closing and reopening the file.
- After each row operations the current page becomes to be locked and you are moved to the next page.
- If the operations does not yield expected result, return to the preceding page and unlock the page by the .

Number of rows:

Number of columns:

Number of highlighted columns:



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



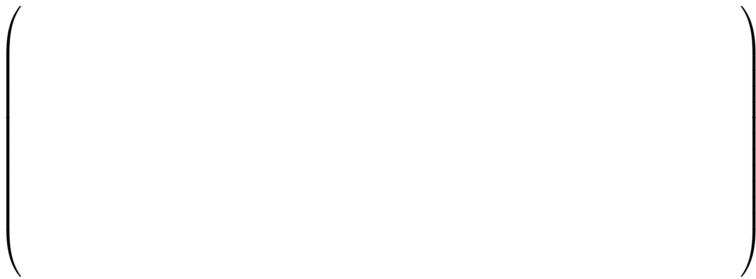
Multiply or divide the row number by

Swap rows number and

-times row plus -times row



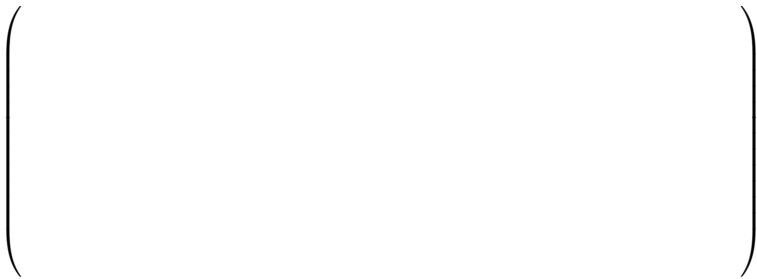
Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

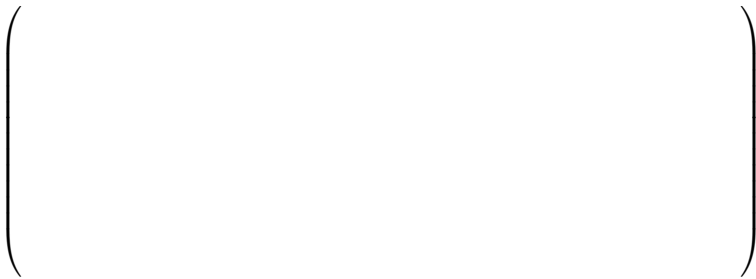
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



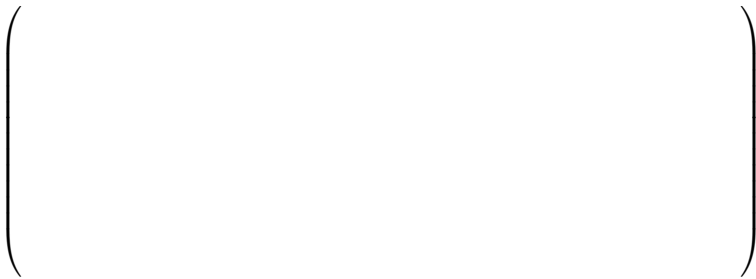
Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

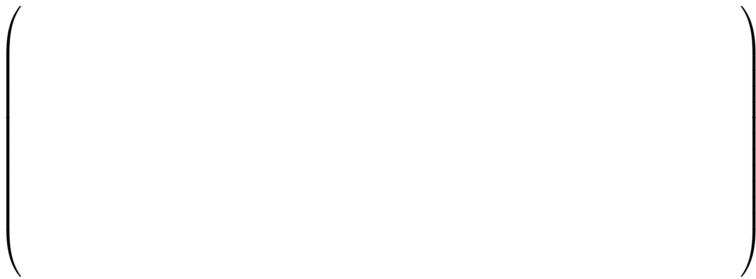
-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



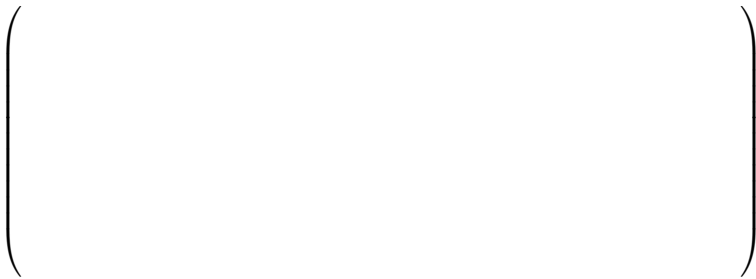
Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



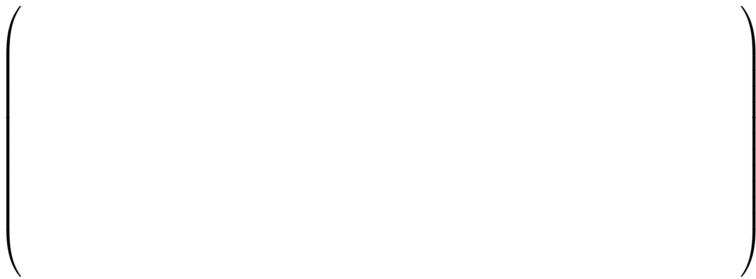
Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

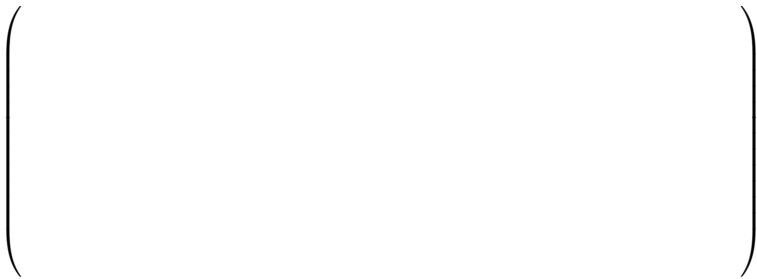
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

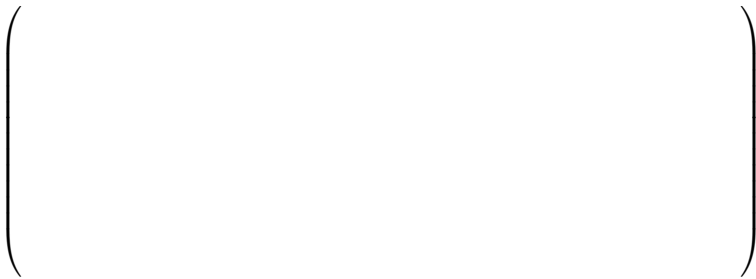
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



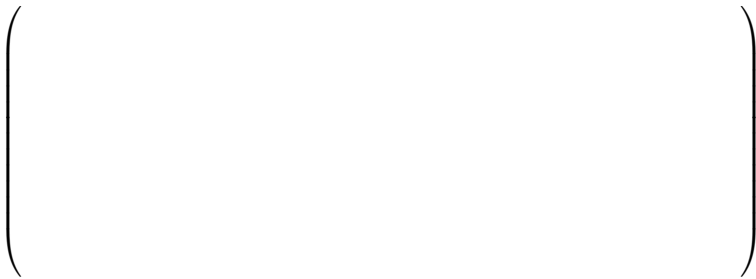
Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



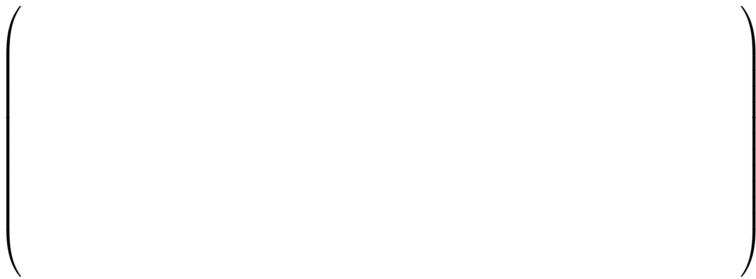
Multiply or divide the row number by

Swap rows number and

-times row

plus

-times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row



Multiply or divide the row number by
Swap rows number and
-times row plus -times row



Multiply or divide the row number by

Swap rows number and

-times row plus -times row