

Using an online tool to pivot our matrices

This URL will take you to the tool:

<https://www.zweigmedia.com/RealWorld/tutorialsf1/scriptpivot2.htm>

Pivot and Gauss-Jordan Tool for
Finite Mathematics
Finite Mathematics & Applied Calculus
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Summary of Systems of Linear Equations | Tutorial on Row Operations | Excel Tutorials for Systems of Linear Equations | Excel Version of This Utility | Previous Version of This Utility

Use of this utility is quite intuitive. Look at the spreadsheet layout below. The left-most column is for typing in row operations (optional -- see the instructions) and the rest of it is for you to enter the matrix. Type entries in the blank cells in fraction or decimal form, starting at the top left. [Click here for some detailed instructions.](#)

The screenshot shows the software's control panel and spreadsheet area. The control panel includes buttons for 'Pivot on Selection', 'Divide Row by Selection', 'Reduce Completely', 'Undo', 'Redo', 'Save This', 'Revert to Saved', 'Erase Everything', 'Swap Rows', 'Rounding' (set to 6 significant digits), and a mode selector (Decimal, Fraction, Integer). The spreadsheet has a column for row operations and 15 columns labeled x1 to x15. Two yellow callout boxes point to specific features:

- A box pointing to the first cell of the first row: "Click in a cell to enter a value"
- A box pointing to the second cell of the first row: "Tab will move you to the next cell in a row"

Disclaimer: Browsers sometimes crash when running computation-intensive Javascript code. Make sure your important work is saved before running this utility.

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[Top of Page](#)

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Top of Page

Set it to fraction display

Here it is with the furniture problem values entered:

Click in the pivot cell

Then click the pivot button

Pivot on Selection Divide Row by Selection Reduce Completely
Undo Redo Save This Revert to Saved Erase Everything
Swap Rows: and Swap Them Clear
Rounding: 6 significant digits Mode: Decimal Fraction Integer

OK matrix saved.

Do Row Ops Clear Row Ops

	c	s	u	v	w	p		x8	x9
u	6	3	1	0	0	0	96		
v	1	1	0	1	0	0	18		
w	2	6	0	0	1	0	72		
p	-80	-70	0	0	0	1	0		

And voila!

You have to update the row label manually 🤔

Pivot on Selection Divide Row by Selection Reduce Completely

Undo Redo Save This Revert to Saved Erase Everything

Swap Rows: and Swap Them Clear

Rounding: significant digits Mode:

Done.

Do Row Ops	Clear Row Ops	c	s	u	v	w	p		x8	x9
c		1	1/2	1/6	0	0	0	16		
v		0	1/2	-1/6	1	0	0	2		
w		0	5	-1/3	0	1	0	40		
p		0	-30	40/3	0	0	1	1280		

Calculate your next pivot cell, click in it, click the Pivot button and you're done!

Pivot on Selection

Divide Row by Selection

Reduce Completely

Undo

Redo

Save This

Revert to Saved

Erase Everything

Swap Rows: and

Swap Them

Clear

Rounding: significant digits

Mode:

Decimal

Fraction

Integer

Done.

Do Row Ops

Clear Row Ops

c	s	u	v	w	p		x8	x9
1	0	1/3	-1	0	0	14		
0	1	-1/3	2	0	0	4		
0	0	4/3	-10	1	0	20		
0	0	10/3	60	0	1	1400		

c

s

w

p