

The program $\text{pivotm}(r,c)$ for the TI-Nspire calculator:

To create a program, make sure you are in the Calculator application. Press **Menu** and go to “Functions & Programs”. Then, “Program Editor” and “New”. A window will pop up prompting the name of the program. Put in the name (PIVOTM), select the type (program) and press OK. Now, you are in the program editor and you can now create your program.

```
Define pivotm(r,c)=
Prgm
det(subMat(m,r,c,r,c))→rc
mRow(1/rc,m,r)→m
rowDim(m)→d
For j,1,d
If j≠r
det(subMat(m,j,c,j,c))→t
If j≠r
mRowAdd(-1*t,m,r,j)→m
EndFor
Disp m
EndPrgm
```

The commands “If” and “For...EndFor” are in the Control menu, “Disp” is in the I/O menu. All others just type in exactly as you see them above (some matrix functions may be case sensitive), or you can choose them from the catalog (button looks like an open book).

Choose **Menu**, “Check Syntax & Store” and press enter to check the program and store it.

To use the program:

1. From a blank screen, type in your initial tableau matrix and $\text{sto} \rightarrow$ as m
2. From the var button, choose pivotm
3. Enter the row (r) and column (c) that you want to pivot on; if you want to pivot on row 3 column 4 you would type
 $\text{pivotm}(3,4)$
4. Press “enter”. The result has been stored in the matrix m, so you are ready to run the program again and pivot on a different row and column if necessary.

See for more information: http://www.atomiclearning.com/ti_nspire

Click on “Calculator” and “Creating a Program”

Or go here for older model calculators: http://www.atomiclearning.com/ti_nspire2