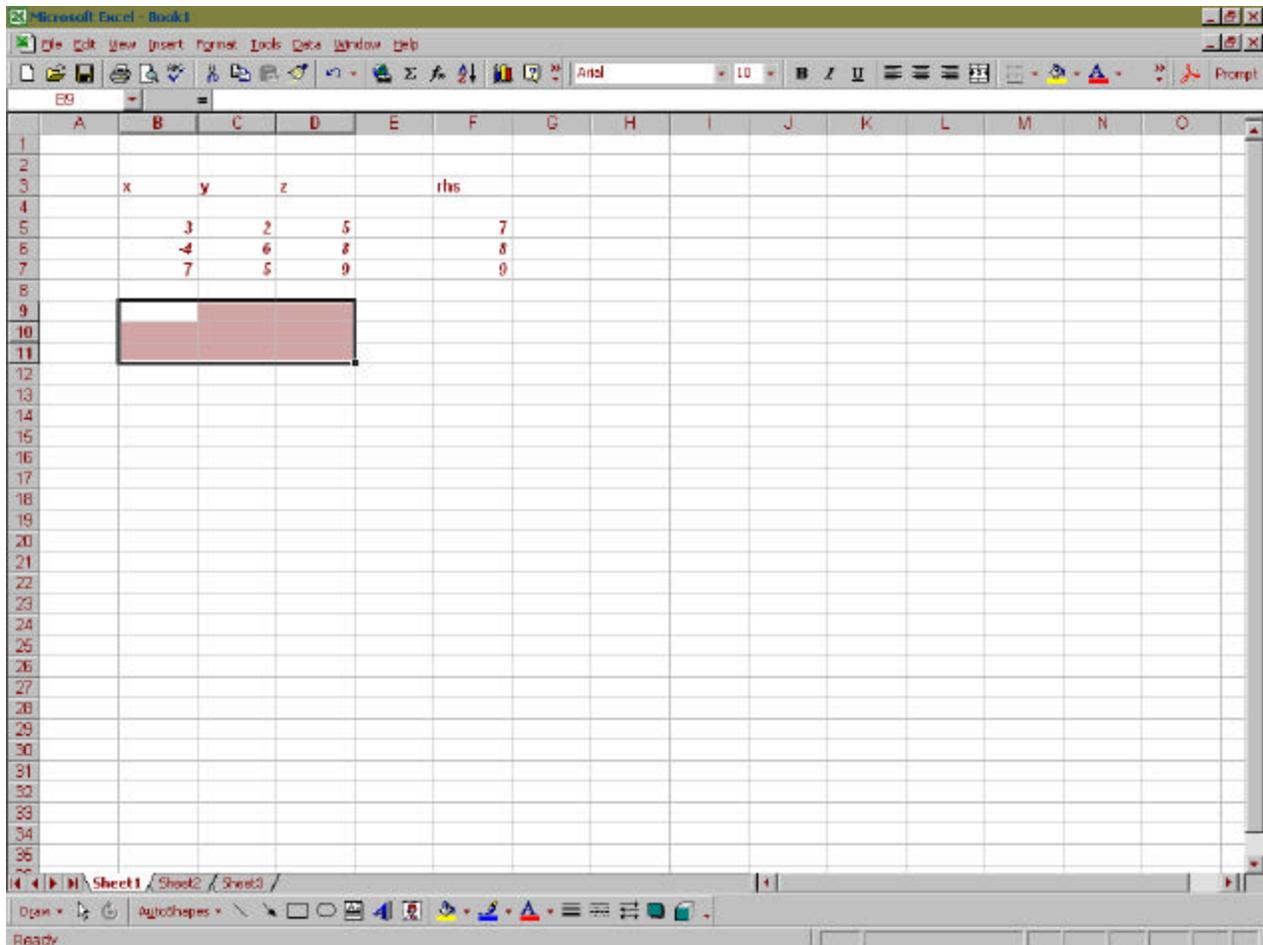
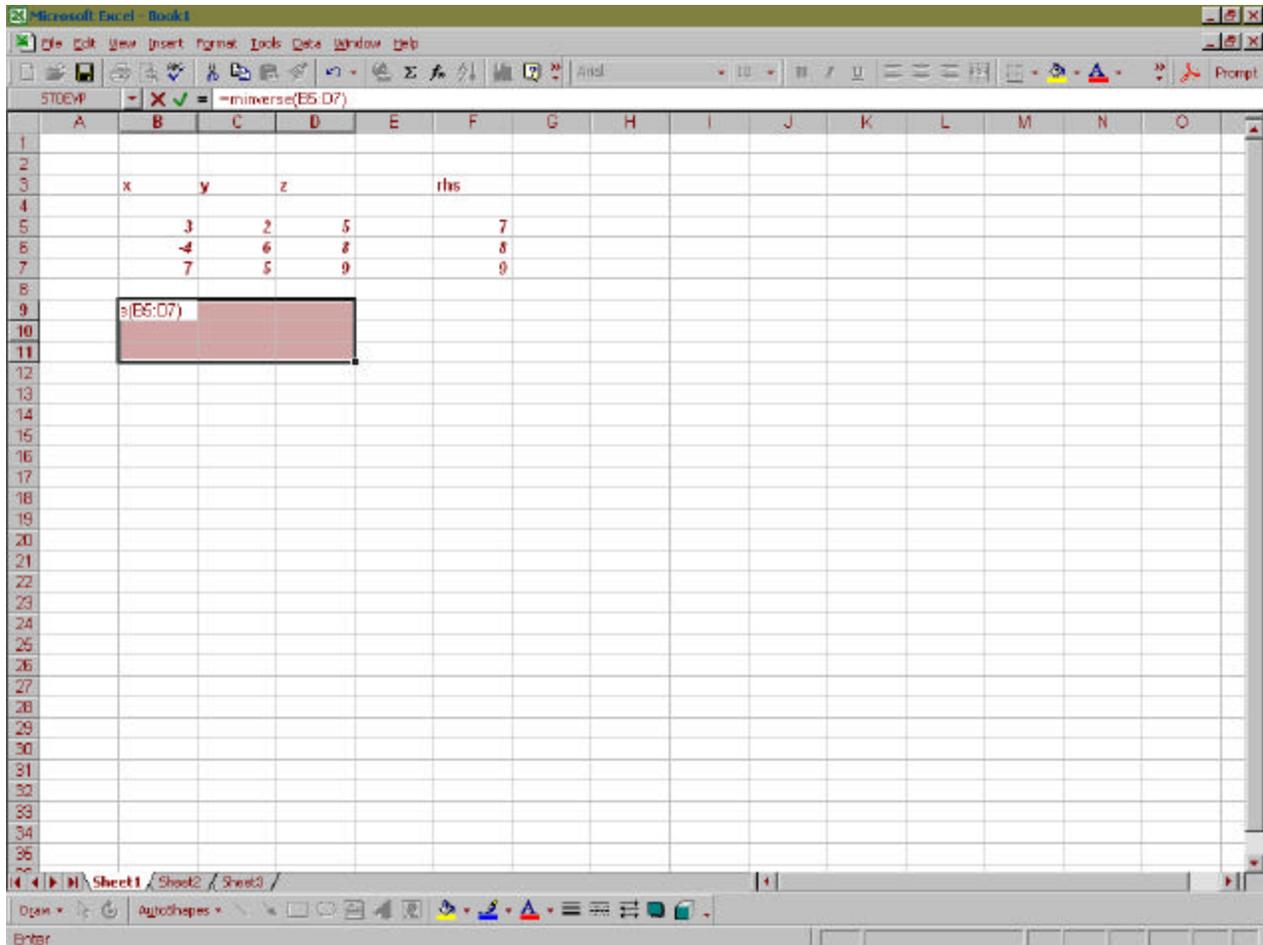


This tutorial shows you how to determine the inverse of a matrix and how to multiply two matrices using Excel.



A 3 X 3 array of cells has been "reserved" for the inverse of the matrix shown above.



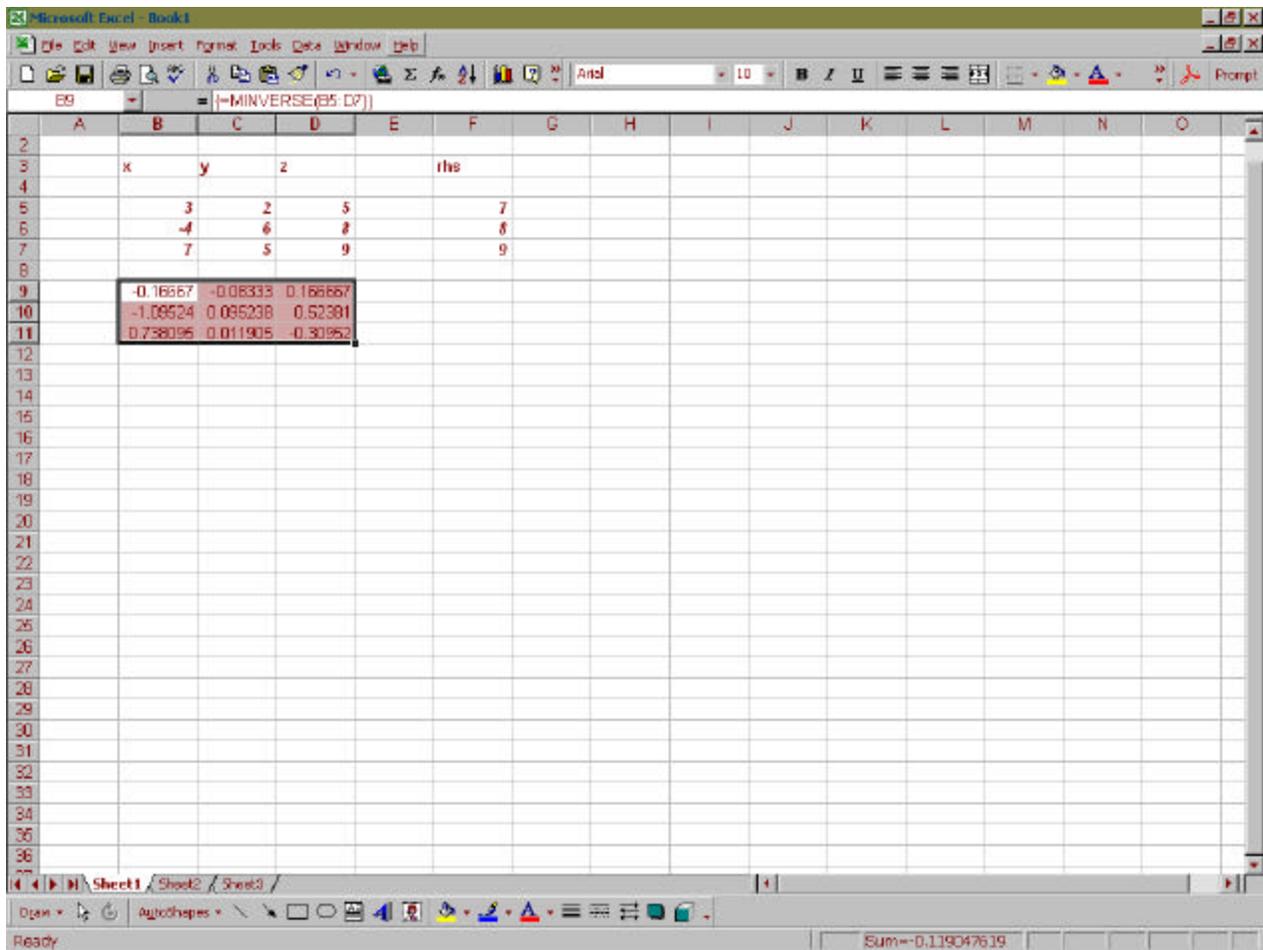
Drag over the matrix for which you wish to determine the inverse; in the formula bar type:

`=minverse(`

and then drag over the area that contains the coefficient matrix; the function, `minverse()` will fill up with the cells that contain the matrix; close the function with a right parenthesis.

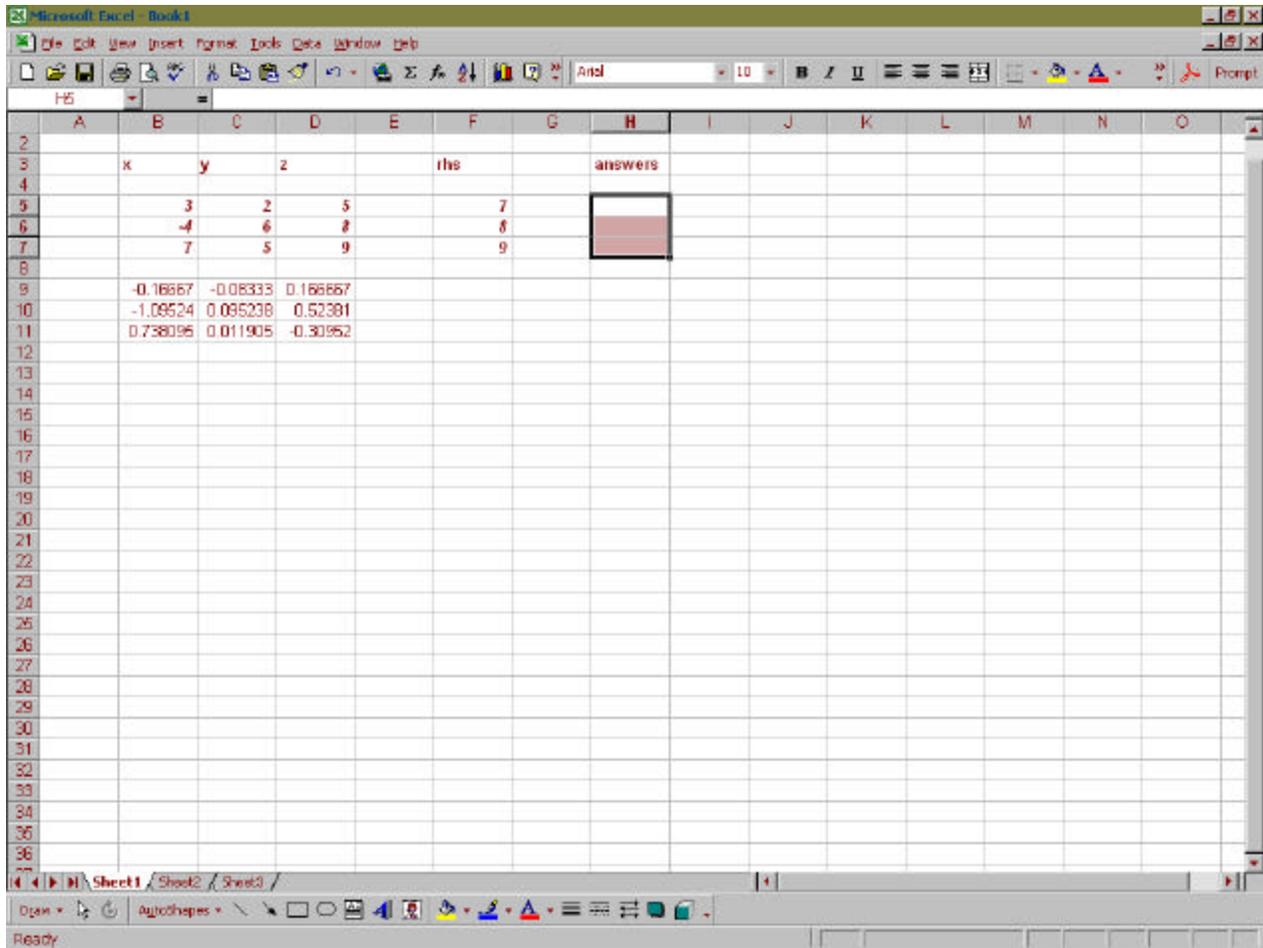
Now hit, at the same time, **CTRL-SHIFT-ENTER**

You will see the inverse appear in the area you reserved for it.



Now, we will multiply the matrix inverse and the right hand side vector in order to determine what x, y, and z are.

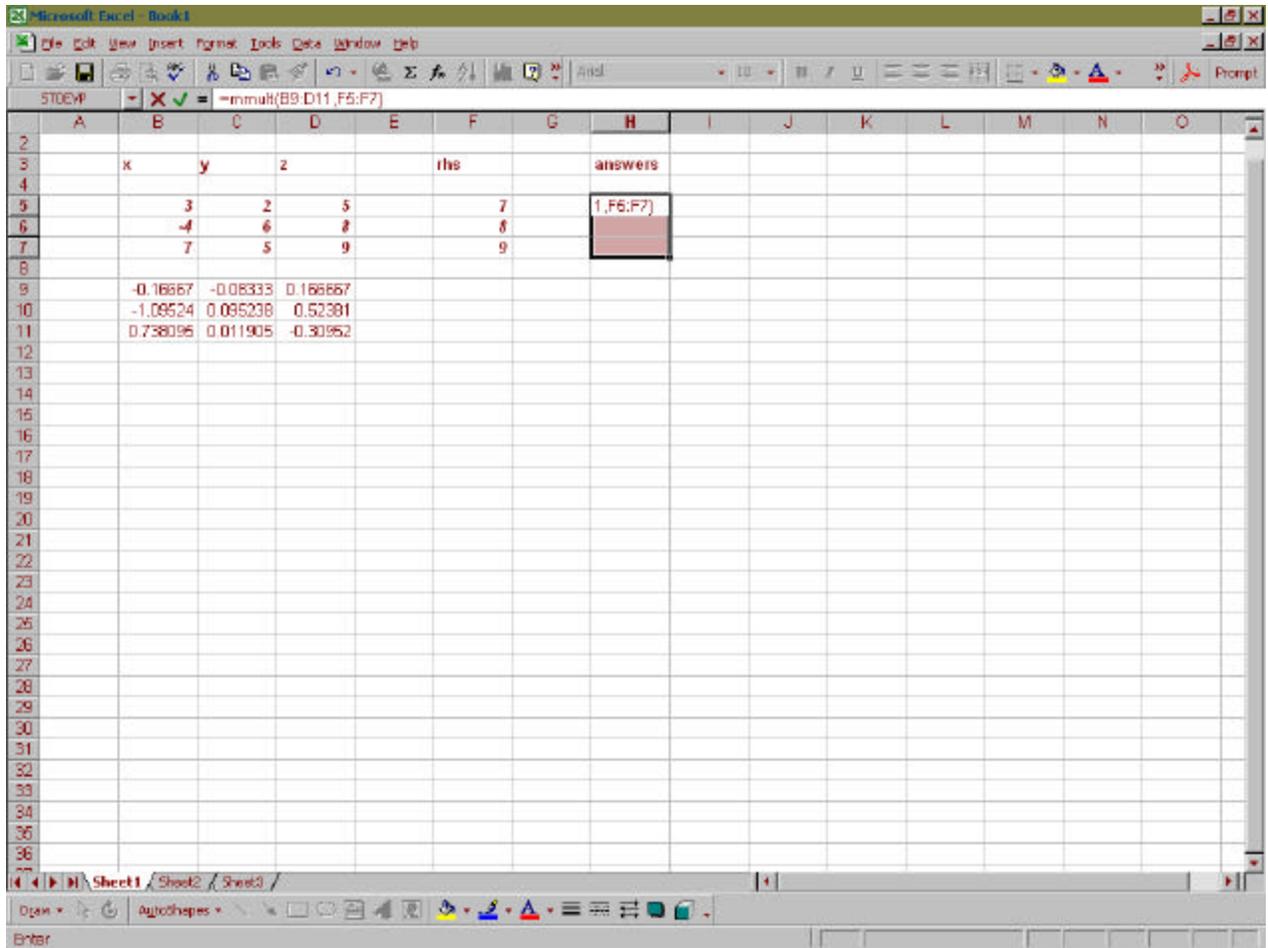
Reserve 3 rows for your answers.



Now, go within the formula bar and type

`=mmult(`

and drag over the inverse, add a comma, and then drag over the right hand side vector; close the function `mmult` with a right parenthesis.



Now hit, at the same time, CTRL-SHIFT-ENTER; your answers will appear in the reserved area.

Microsoft Excel - Book1

File Edit View Insert Format Tools Data Window Help

Font Size: Arial 10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2															
3		x	y	z		the		answers							
4															
5			3	2	5		7	-0.33333							
6			-4	6	8		8	-2.19048							
7			7	5	9		9	2.47619							
8															
9		-0.16667	-0.08333	0.16667											
10		-1.09524	0.095238	0.52381											
11		0.738095	0.011905	-0.30952											
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Drawings toolbar: AutoShapes, lines, rectangles, ovals, text boxes, arrows, eraser, fill, color, font, bold, italic, underline, bullet, indent, zoom, print, save, close.