GUASS JORDAN ELIMINATION ME

Example #1

X+Y-Z=7 X-Y+2Z=3 2X+Y+Z=9 Final product should look like this: Where "n" is any constant

Х	Y	Z	Сс	<u>nstan</u> t
	1	1	-1	7
	1	-1	2	3
	2	1	1	9

Ζ

Constant

Y

Х

Step #1- Convert equation to matu

	changing b 14 to b 22		
Step #2-	in b21 enter =b13 and p		
	In b22 enter = $(b13-b14)$		
	in b23 enter =b15 and p		

Х	Y	Ζ	Constant		changing b 23 to b 31
				Step #3-	in b29 enter =b13 and p
					in b30 enter =b22 and p
					in b31 enter =B21 *-2 +

Х	Y	Z	Constant	Step #4	changing c 31 to c 39
					in b37 enter =29 and pr in b38 enter =b30 and p in c 39 enter =c30+c31*



X	Y	Z	Constant	Step #6-	changing d46 to d54
					in b53 enter =b45 and p in b54 enter =b46+b47 and p in b55 enter =b47 and p
X	Y	Z	Constant	Step #7-	changing c53 to c61 in b61 enter =b53*2 - b! in b62 enter =b54 and p in b63 enter =b55 and p
					changing the diagnols! I

Х	Y	Ζ	Constant	Step #8-	
					in b69 enter =b61*(1/6)
					in b70 enter =b62* (1/2
					in b71 enter =b63* (1/3

x=6 y=-1 z=2

(6,-1,2)

THOD USING EXCEL BLANK WORKSHEET





ress enter , drag over until e21 and press enter, then drag over until e22 ress enter

ress enter, drag over until e29 ress enter, drag over until e30 B23 and press enter, drag over until e31

ess enter, drag over until e37 ress enter, drag over until b38 2 and press enter, drag over until e39 and incluce b 39 and press enter, drag over until e45 ress enter, drag over until b46 ress enter, drag over until b47

ress enter, drag over until e53 and press enter, drag over until e54 ress enter, drag over until e55

54 and press enter, drag over until e61 ress enter, drag over until e62 ress enter, drag over until e63

361, C63, and D63!

and press enter, drag over until e69) and press enter, drag over until e70) and press enter, drag over until e71 and press enter, drag over until e45 ress enter, drag over until b46 ress enter, drag over until b47

ress enter, drag over until e53 and press enter, drag over until e54 ress enter, drag over until e55

54 and press enter, drag over until e61 ress enter, drag over until e62 ress enter, drag over until e63

361, C63, and D63!

and press enter, drag over until e69) and press enter, drag over until e70) and press enter, drag over until e71