Example \#1

$$
\begin{aligned}
& X+Y-Z=7 \\
& X-Y+2 Z=3 \\
& 2 X+Y+Z=9
\end{aligned}
$$



Final product should look like this: Where " n " is any constant

Step \#1- Convert equation to matr
changing b 14 to b 22

in b21 enter =b13 and p
In b22 enter =(b13-b14)
in b23 enter $=b 1 b$ and $p$
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 +
changing c 31 to c 39 Step \#4
in b3/ enter $=29$ and pr
in b38 enter $=$ b30 and p
in c 39 enter $=c 30+c 31^{*}$

changing d46 to d54

in bb3 enter =b4b and p in b54 enter $=b 46+b 47$; in bbs enter =b4 / and p
changing c53 to c61

in b61 enter $=b 3^{*} 2-b$ !
in b62 enter $=\mathrm{b} 54$ and $p$ in b63 enter $=b b b$ and $p$
changing the diagnols! !

in b69 enter =b61*(1/6)
in b/U enter $=\mathrm{b} 62^{*}$ (1/2
in b/1 enter $=$ b63* (1/3
$x=6$
$y=-1$
$\mathrm{z}=2$
$(6,-1,2)$

## THOD USING EXCEL BLANK WORKSHEET

| X | Y | Z | Constant |
| :--- | :--- | :--- | ---: | ---: |
| 1 | 0 | 0 | n |
| 0 | 1 | 0 | n |
| 0 | 0 | 1 | n |

-ice
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 untıl e31
ess enter, drag over until e3/
ress enter, drag over until b38
2 and press enter, drag over untıl e39 and incluce b 39
and press enter, drag over until e45
iress enter, drag over until b46 ress enter, drag over until b4 /
ress enter, drag over until eb3
and press enter, drag over until eb4
ress enter, drag over until e55
b4 and press enter, drag over until e61 iress 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 e/U
) and press enter, drag over until e/I
and press enter, drag over until e45
iress enter, drag over until b46 ress enter, drag over until b4 /
ress enter, drag over until eb3
and press enter, drag over until eb4
ress enter, drag over until e55
b4 and press enter, drag over until e61 iress 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 e/U
) and press enter, drag over until e/I

