Gauss Elimination Method

1	1	1	9
2	5	7	52
2	1	-1	0

Ratio = A[2][1] /A[1][1] = 2/1 = 2

1	1	1	9
2-1x2=0	5-1x2=3	7-1x2=5	52-9x2=34
2	1	-1	0

1	1	1	9
0	3	5	34
2	1	-1	0

Ratio = A[3][1] /A[1][1] = 2/1 = 2

1	1	1	9
0	3	5	34
2-1x2=0	1-1x2=-1	-1-1x2=-3	0-9x2=-18

1	1	1	9
0	3	5	34
0	-1	-3	-18

Ratio = A[3][2] /A[2][2] = -1/3 = -0.33

1	1	1	9
0	3	5	34
0-0x(-0.33)=0	-1-3x(-0.33)=0	-3-5x(-0.33)=-1.33	-18-34x(-0.33)=-6.67

1	1	1	9
0	3	5	34
0	0	-1.33	-6.67

[1] Z = -6.67(A[3][4]) / -1.33(A[3][3])=> Z=5
[2] 3xY + 5xZ = 34 => 3xY + 5x5 = 34 => 3xY = 34 – 25 => 3xY = 9 => Y = 9/3 => Y=3
[3] X + Y + Z = 9 => X + 3 + 5 = 9 => X + 8 = 9 => X=1