

**Original matrix**

compute reduced row echelon form (rref) of matrix A below:

Augmented	Matrix A	Matrix B
1	1	1
2	1	1
3	1	1

**Check**

add the zero rows:

Augmented	Matrix A	Matrix B	Augmented	Matrix A	Matrix B
			1	1	1
1	1	1		1	1
2	1	1		1	1
	0	0	1	1	1
	0	0		1	1
	0	0	1	1	1
	0	0		1	1
1	1	1	1	1	1
2	1	1		1	1
	0	0	1	1	1
	0	0		1	1
1	1	1	1	1	1
2	1	1		1	1
	0	0	1	1	1
	0	0		1	1
	0	0	1	1	1
	0	0		1	1