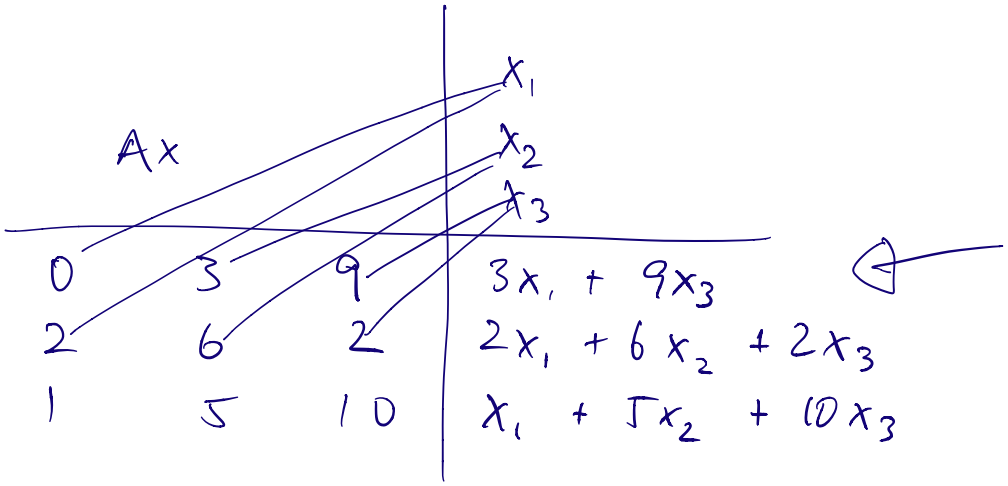
x_1	x_2	x_3	b_i
0	3	9	3
2	6	2	0
1	5	10	5

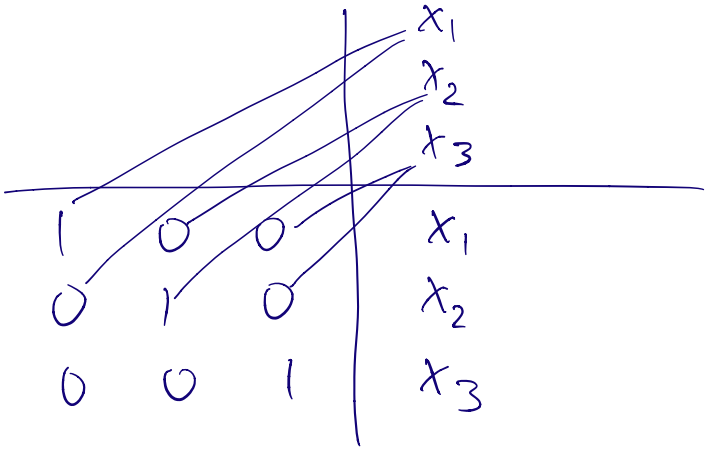
$$x = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}$$

$$b = \begin{bmatrix} b_1 \\ b_2 \\ b_3 \end{bmatrix} = \begin{bmatrix} 3 \\ 0 \\ 5 \end{bmatrix}$$



$Ax = b$

R : 1



$$x_1 + x_3 = 4$$
$$x_2 + x_3 = 3$$
$$x_1 + x_2 = 5$$ ✓

	x_1	x_2	x_3	b_i
	1	0	1	4
	0	1	1	3
(-1) ↓	1	1	0	5

A , b

	1	0	1	4
	0	1	1	3
(-1) ↓	0	1	−1	1

	1	0	1	4
(-1) ↑	0	1	1	3
(-1) ↑	0	0	−2	−2

$-2x_3 = -2$

	1	0	0	3
	0	1	0	2
	0	0	1	1

$x_1 = 3$

$x_2 = 2$

$x_3 = 1$