

1

$$x_1 = 2, \quad x_1 = 1$$

2.

$$x_1 = 3 - x_2$$

3.

$$\begin{bmatrix} 1 & 0 & -1 \\ 0 & 1 & 2 \\ 0 & 0 & 0 \end{bmatrix}$$

4.

$$\begin{bmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{bmatrix}$$

5. linearly dependent

6.

1	2	3	4	5	6	7	8	9	10
T	F	F	F	T	T	F	F	T	F