

## Cevaplar - 2

$$1. \text{ a)} \begin{bmatrix} 2 & 4 & -6 & | & -8 \\ -1 & 1 & -3 & | & 2 \\ 1 & 0 & 3 & | & -4 \end{bmatrix}, \quad 1. \text{ c)} \begin{bmatrix} 2 & -2 & 6 & | & -4 \\ 2 & 4 & -6 & | & -8 \\ 1 & 0 & 3 & | & -4 \end{bmatrix}, \quad 1. \text{ e)} \begin{bmatrix} 0 & 3 & -6 & | & -2 \\ 2 & 4 & -6 & | & -8 \\ 1 & 0 & 3 & | & -4 \end{bmatrix}.$$

$$2. \text{ a)} \begin{bmatrix} 1 & 0 & -7 \\ 0 & 1 & 3 \end{bmatrix}, \quad 2. \text{ c)} \begin{bmatrix} 1 & 0 & 2 & -\frac{5}{3} \\ 0 & 1 & -2 & \frac{1}{3} \\ 0 & 0 & 0 & 0 \end{bmatrix}.$$

$$3. \text{ a)} \begin{cases} x = -2 \\ y = 3 \end{cases}, \quad \zeta = \{(-2, 3)\}, \quad 3. \text{ c)} \begin{cases} x + 2y = 2 \\ 0 = 0 \end{cases}, \quad \zeta = \{(2-2t, t) : t \in \mathbb{R}\}.$$

$$3. \text{ d)} \begin{cases} x_1 = -2 \\ x_2 = 3 \\ x_3 = 0 \end{cases}, \quad \zeta = \{(-2, 3, 0)\}; \quad 3. \text{ f)} \begin{cases} x = 0 \\ y = 0 \\ 0 = 1 \end{cases}, \quad \zeta = \Phi.$$

$$5. \text{ a)} \zeta = \{(-2, 3, 1)\}, \quad 5. \text{ c)} \zeta = \Phi, \quad 5. \text{ d)} \zeta = \{(1+2t, 1+t, t) : t \in \mathbb{R}\}.$$

$$6. \text{ b)} \zeta = \{(1+2t, t, 3/2, -1/2, 0) : t \in \mathbb{R}\}.$$

8. 1 tane 6 tonluk, 17 tane 8 tonluk, 6 tane 18 tonluk; veya 6 tane 6 tonluk, 11 tane 8 tonluk, 7 tane 18 tonluk; veya 11 tane 6 tonluk, 5 tane 8 tonluk, 8 tane 18 tonluk.

$$11. \text{ a)} \begin{cases} x_1 + x_4 = 1200 \\ x_1 + x_2 = 1100 \\ x_2 + x_3 = 1200 \\ x_3 + x_4 = 1300 \end{cases}$$

$$11. \text{ b)} \zeta = \{(1200-t, -100+t, 1300-t, t) : t \in \mathbb{R}\}, \quad 11. \text{ d)} x_4 = t = 300 \text{ alınır.}$$