$C = |-1 \quad -2 \quad -1 \quad 0 \quad 0|$

$$\left[\begin{array}{cccccc|c} 1 & 1 & 1 & 1 & 0 & 0 & 4 \\ 1 & -2 & 1 & 0 & 1 & 0 & 2 \\ -2 & 1 & 0 & 0 & 0 & 1 & 2 \end{array}\right]$$

b)

$$\left[\begin{array}{ccc|c} 1 & 1 & 0 & 4 \\ 1 & 0 & 0 & 2 \\ -2 & 0 & 1 & 2 \end{array}\right] \downarrow$$

$$\left[\begin{array}{ccc|c} 1 & 1 & 0 & 4 \\ 1 & 0 & 0 & 2 \\ 1 & 0 & 1 & 8 \end{array}\right]$$

Resolvendo

$X_1, X_4, X_6 = [2, 2, 6]$

É viável

a)

$$\left[\begin{array}{ccc|c} 1 & 1 & 0 & 4 \\ 1 & 0 & 1 & 2 \\ 1 & 3 & 0 & 14 \end{array}\right] \downarrow$$

$$\left[\begin{array}{ccc|c} 0 & -2 & 0 & -10 \\ 0 & -3 & 1 & -12 \\ 1 & 3 & 0 & 14 \end{array}\right]$$

Resolvendo

$|X_1, X_5, X_6| = [-1, 5, 3]$

Não é viável

c)

$$\left[\begin{array}{ccc|c} 1 & 1 & 0 & 4 \\ 1 & 0 & 1 & 2 \\ 0 & 0 & 0 & 2 \end{array}\right]$$

Não é base!