

a)
$$C = \{(1, 2, 1, 0), (2, 1, 3, 0), (3, 2, 4, 1)\} \subseteq \mathbb{R}^4$$

b)
$$C = \{(3, 3, 3), (2, 1, 0), (7, 5, 3)\} \subseteq \mathbb{R}^3$$

$$\chi_{4} \cdot (1,2,1,0) + \chi_{2} \cdot (2,1,3,0) + \chi_{3} \cdot (3,2,4,1) \stackrel{?}{=} (0,0,0,0)$$

$$(24, 24, 04, 0) + (202, 42, 302, 0) + (303, 203, 403, 43) = (0,0,0,0)$$

Forma matricial

$$(2)$$
 (2)

(=) X₂ = 0

$$\begin{cases} x_1 + 2x_2 = 0 & 1 \\ 2x_1 + x_2 = 0 & 2 \\ x_1 + 3x_2 = 0 & 3 \end{cases}$$

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