

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

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

$$\lambda_1 \cdot (1,2,1,0) + \lambda_2 \cdot (2,1,3,0) + \lambda_3 \cdot (3,2,4,1) \stackrel{?}{=} (0,0,0,0)$$

$$(=)$$
 $(\alpha_1, 2\alpha_1, \alpha_1, 0) + (2\alpha_2, \alpha_2, 3\alpha_2, 0) + (3\alpha_3, 2\alpha_3, 4\alpha_3, \alpha_3) = (0,0,0,0)$

$$(2)$$
 (2)

$$\Leftrightarrow \alpha_3 = 0$$

a)

$$\begin{cases} d_1 + 2d_2 = 0 & 1 \\ 2d_1 + d_2 = 0 & 2 \\ d_1 + 3d_2 = 0 & 3 \end{cases}$$

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