

6.4. Generadores

$$\{(2, 0, 0), (0, 2, 0), (0, 0, 1)\} = \text{Gen}$$

$$(x, y, z) \in \mathbb{R}^3$$

$$(x, y, z) = \frac{x}{2} \cdot (2, 0, 0) + \frac{y}{2} \cdot (0, 2, 0) + \frac{z}{2} \cdot (0, 0, 2)$$

$$= (x, 0, 0) + (0, y, 0) + (0, 0, z)$$

$$= (x, y, z)$$

$$\text{Gen} \{(1, 1)\} = \{(0, 0), (1, 1)\}$$

$$\{(v_1), (v_2), (v_3)\} = \text{Gen } S$$

\mathbb{R}^3

$$\underbrace{(0, 2, 0)} + 2 \cdot \underbrace{(0, 0, 1)} =$$

$$) + (0, 0, 2) =$$

en \mathbb{R}^3

$$\in \mathbb{R}^3$$

$$\in \mathbb{R}^3$$

$$\in \mathbb{R}^3$$

$$\alpha_1 \cdot v_1 = v_4$$

$$\alpha_2 \cdot v_1 + \alpha_3 \cdot v_2 = v_5, \quad \alpha_j \in \mathbb{R}$$

$$\alpha_4 \cdot v_3 = v_6$$

$$\mathbb{S} \subset \mathbb{R}^3$$

$$\mathbb{R} \in \mathbb{S}$$