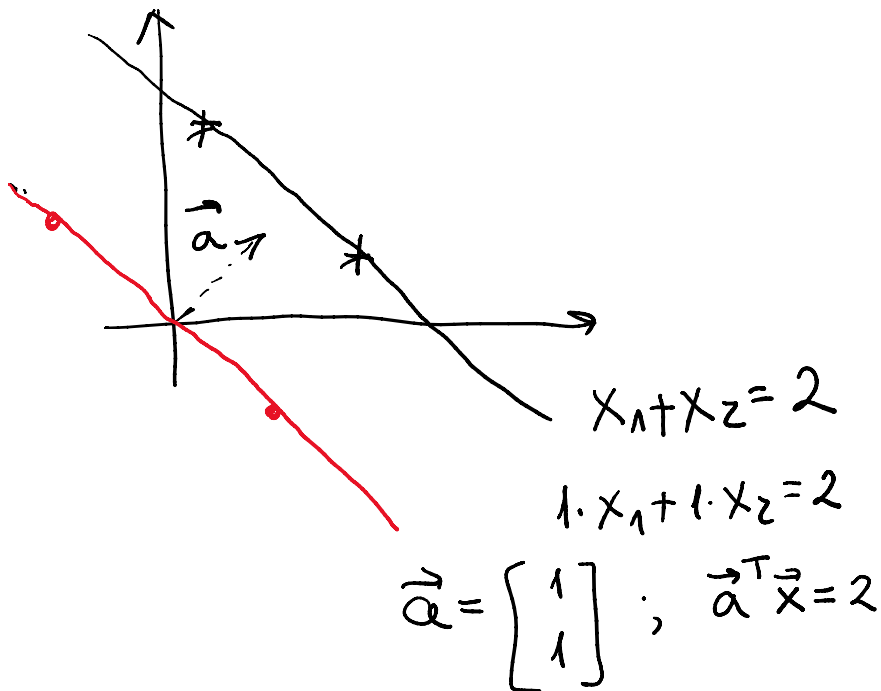
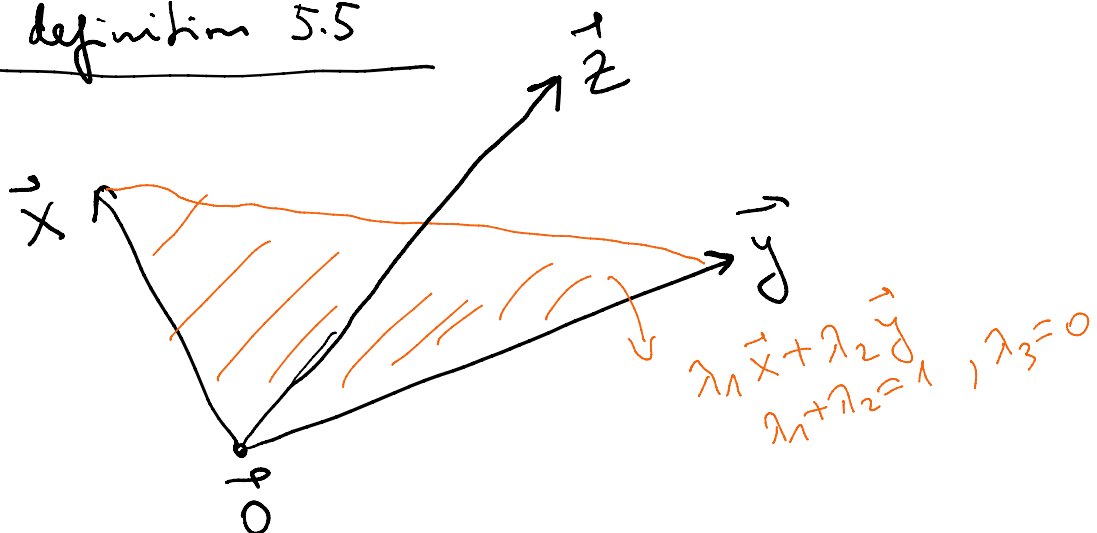


# Polyeder

## Om sætning 5.1

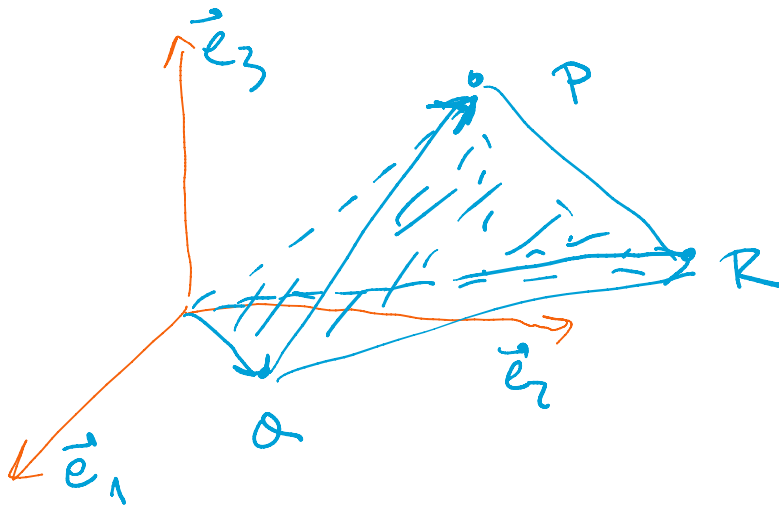


## Om definition 5.5



$$\left\{ \lambda_1 \vec{x} + \lambda_2 \vec{y} + \lambda_3 \vec{z} : \lambda_1 + \lambda_2 + \lambda_3 = 1, \lambda_i \geq 0 \right\}$$

$\vec{e}_3$



om punkt c) på side 8

$K=2$

$$\lambda_1 \vec{x}_1 + \lambda_2 \vec{x}_2 + \lambda_3 \vec{x}_3 \quad \underline{\underline{\lambda_3 \neq 1}}$$

$$\lambda_1 + \lambda_2 + \lambda_3 = 1$$

$$= \lambda_3 \vec{x}_3 + (1 - \lambda_3) \vec{y}_1 \quad \text{hvor}$$

$$\vec{y}_1 = \frac{\lambda_1}{1 - \lambda_3} \vec{x}_1 + \frac{\lambda_2}{1 - \lambda_3} \vec{x}_2$$

$\downarrow t_1 \quad \quad \downarrow t_2$   
 $t_1 + t_2 = \frac{\lambda_1 + \lambda_2}{1 - \lambda_3} = 1$

$\Rightarrow \vec{y}_1 \in S$

$K=3$

$$\lambda_1 \vec{x}_1 + \dots + \lambda_4 \vec{x}_4 \quad \underline{\underline{\lambda_4 \neq 1}}$$

$$\lambda_4 \vec{x}_4 + (1 - \lambda_4) \vec{y}$$

$$\vec{y} = \frac{\lambda_1}{1 - \lambda_4} \vec{x}_1 + \frac{\lambda_2}{1 - \lambda_4} \vec{x}_2 + \frac{\lambda_3}{1 - \lambda_4} \vec{x}_3 \in S$$

$$\delta^- \quad (1-\lambda_4) \quad (1-\lambda_4) \quad (1-\lambda_4)$$

$\downarrow t_1$        $\downarrow t_2$        $\downarrow t_3$