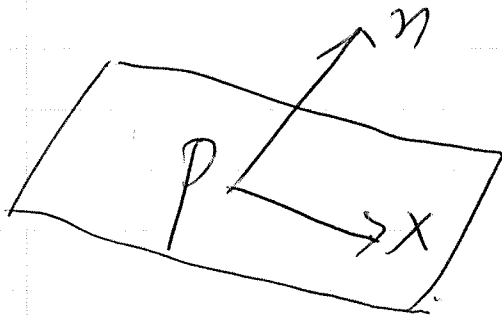


$$z = -1 + 3t$$

o Planes in \mathbb{R}^3



$$(x-p) \cdot n = 0 \Rightarrow n \cdot x = n \cdot p.$$

Def. The normal form of the equation of a plane P in \mathbb{R}^3 is

$$n \cdot (x-p) = 0$$

The general form is

$$ax + by + cz = d, \quad n = \begin{bmatrix} a \\ b \\ c \end{bmatrix}$$