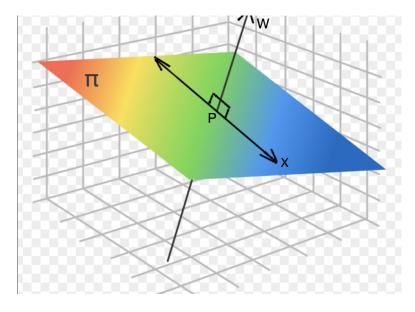
Recall

How to write down a plane passing through a point with a normal vector



$$\begin{array}{c} x \leftrightarrow \vec{ox} \\ p \leftrightarrow \vec{op} \end{array}$$

Write down the charactristic of $x \in \pi$

$$\begin{aligned} \vec{px} \perp \vec{w} &\longleftrightarrow \vec{px} \cdot \vec{w} = 0 \\ (x - p) \cdot \vec{w} &= 0 \\ \longleftrightarrow \vec{w} \cdot x - \vec{w} \cdot p = 0 \\ \longleftrightarrow \vec{w} \cdot + b &= 0, \, \forall x \in \pi \end{aligned}$$