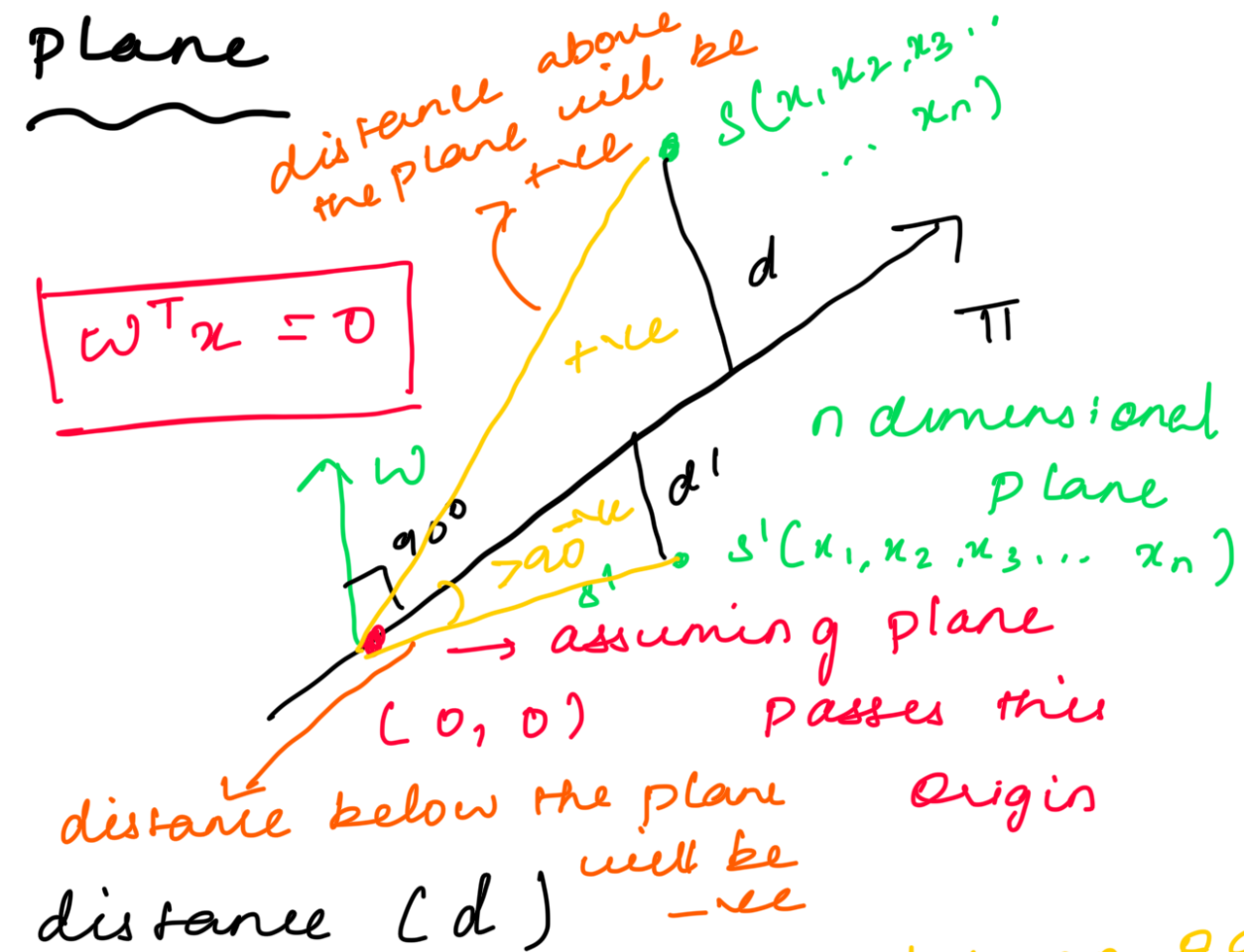


Distance of a point from plane



$$d = \frac{w^T s}{\|w\|}$$

$\theta = \text{between } 0 \text{ and } 90$

$\Rightarrow w^T s = \|w\| \|s\| \cos \theta$

$\|$
+ve value

$$\frac{d}{\|w\|} = \frac{w^T s'}{\|w\|} \Rightarrow w^T s' = \|w\| \|s'\| \cos \theta$$

$\|$

$$\theta = > 90$$

\Downarrow

- ve value