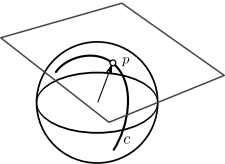


$$\{p\}^\perp = E_p \cong \mathbb{R}^2$$



$$S^2 \subset \mathbb{R}^3$$