

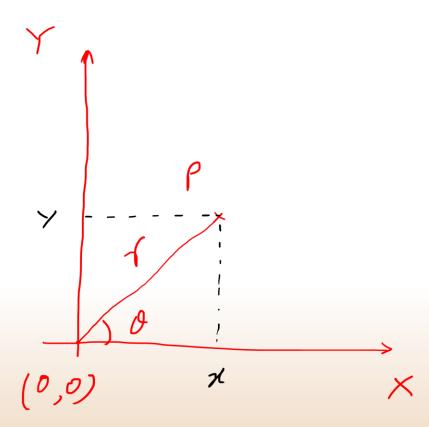
Point
$$\Rightarrow \chi = (\eta, y) \in \mathbb{R}^2$$

$$\begin{cases} \rho^2 = \mathbb{R}^2 - (0,0,0) \\ \frac{\omega \chi}{\omega}, \frac{\omega \chi}{\omega}, 1 \end{cases}$$
Augmented vector

2,3,1

2, 4, 2

Polar



$$\widetilde{l} = (\alpha, b, c)$$

$$\frac{1}{2} = 2x + by + C = 0$$

$$\frac{1}{2} = 2x + by + C = 0$$

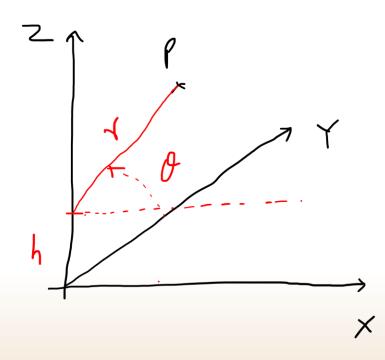
$$\chi = (\chi, \chi Z) \mathcal{E} \mathcal{R}^{2}$$

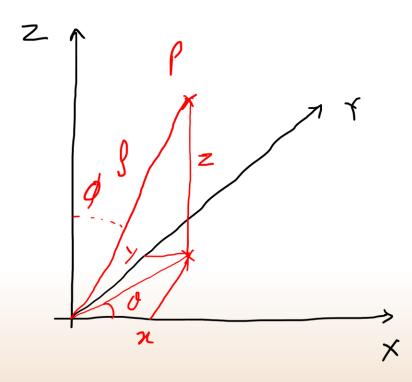
$$\tilde{\chi} = (\tilde{\chi}, \tilde{\gamma}, \tilde{z}, \tilde{\omega}) \in P^3$$

$$p^{2} = R^{4} - (0, 0, 0, 0)$$

$$\overline{X} = (X, Y, Z, I)$$

Cylindrical





$$(f, \phi, O)$$

$$\widetilde{m} = (\alpha, b, c, d)$$

$$\overline{\chi} \cdot \widetilde{m} = \alpha \chi + b \gamma + c z + d = 0$$