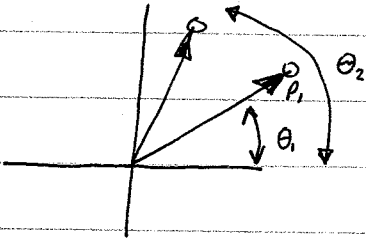


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Measure the distance between angles



Can subtract in 1D, not in 4D
(or even 2D)

rotate whole picture so p_1 is on x axis
now p_2 is $\theta_2 - \theta_1$

$$\text{dist } \theta_1, \theta_2 = \| \theta_1^{-1} \theta_2 \|$$

↑
↑
rotations

← amount of rotation
- get angle from quaternion
- log of quaternion → magnitude