



PLANE VECTOR ANGLES

Why

We talk about angles in the plane using the language of vectors.

Definition

The *angle* (*unsigned angle*) between $x \in \mathbf{R}^2$ and $y \in \mathbf{R}^2$ is the real number

$$\theta = \angle(x, y) = \cos^{-1} \frac{x^\top y}{\|x\| \|y\|}$$

