Memory
$$\vec{v} = v_x \hat{i} + v_y \hat{j}$$

$$|\vec{v}| = \sqrt{v_x^2 + v_y^2}$$

$$v_x = |\vec{v}| \cos(\theta)$$

$$v_y = |\vec{v}| \sin(\theta)$$

 $\theta = \tan^{-1} \left( \frac{v_y}{v} \right)$