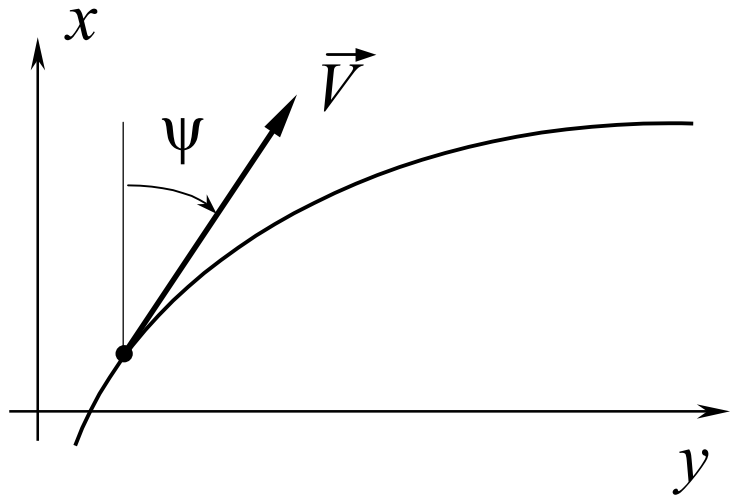# DYNAMICS OF MOTION
## (the case of constant velocity)

$$\dot{x} = V \cos\psi$$

$$\dot{y} = V \sin\psi$$

$$\dot{\psi} = \frac{k}{V} u$$



$$|u| \leq 1, \quad k = \text{const} > 0, \quad V \geq \text{const} > 0$$