

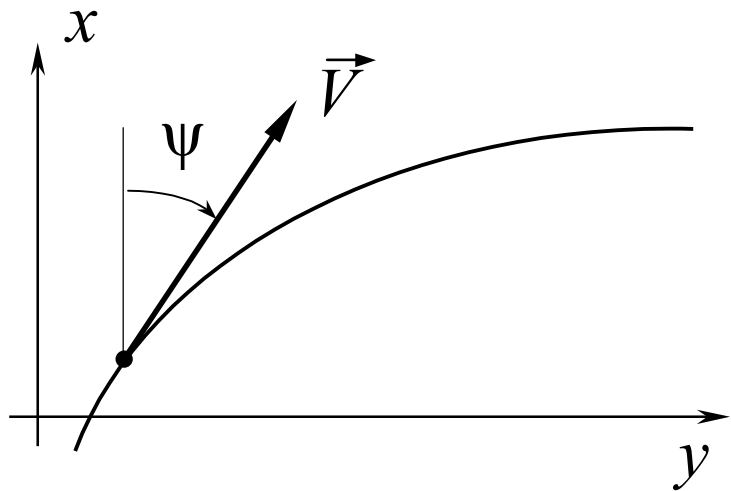
DYNAMICS OF MOTION

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

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

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

$$\dot{V} = w$$



$$|u| \leq 1, \quad \mu_1 \leq w \leq \mu_2, \quad \mu_1 < 0, \quad \mu_2 > 0,$$

$$k = \text{const} > 0, \quad V \geq \text{const} > 0$$