

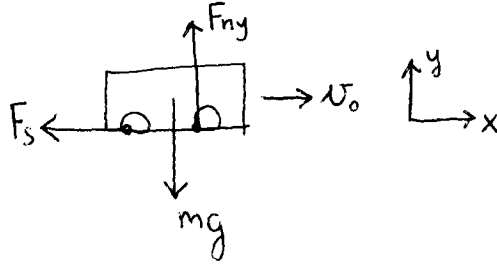
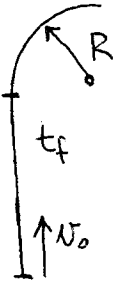
2.) $v_0 = 90 \frac{\text{km}}{\text{h}} = 25 \frac{\text{m}}{\text{s}}$ $R = 20\text{m}$ $t_f = 1,6\text{s}$ $\mu = ?$

$$\vec{a} = \frac{\vec{F}_e}{m}$$

$$F_{s_{\text{max}}} = \mu F_{ny}$$

$$a_{cp} = \frac{v^2}{R}$$

$$v = v_0 + at$$



$$\vec{F}_e = m\vec{a}$$

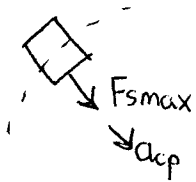
$$(y) F_{ny} = mg$$

$$(x) ma = -F_{s_{\text{max}}} = -\mu F_{ny} = -\mu mg$$

$$a = -\mu g$$

kanyarba ér: $v = v_0 + at_f = v_0 - \mu g t_f$

Éppen beveszi:



$$ma = F_{s_{\text{max}}}$$

$$m \frac{v^2}{R} = \mu mg$$

$$v^2 = \mu g R \rightarrow (v_0 - \mu g t_f)^2 = \mu g R$$

⇓

μ