

①

Matken, aigua, ravevus, ravevundu

matken  $s$   
aigua  $t$

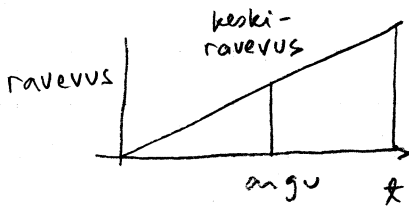
ravevus = matken aigua ylenkös  $v = s/t$

ravevundu = ravevun muutos aigua ylenkös  $a = v/t$

$$v = \frac{s}{t} \quad s = vt \quad t = \frac{s}{v}$$

$$a = \frac{v}{t}$$

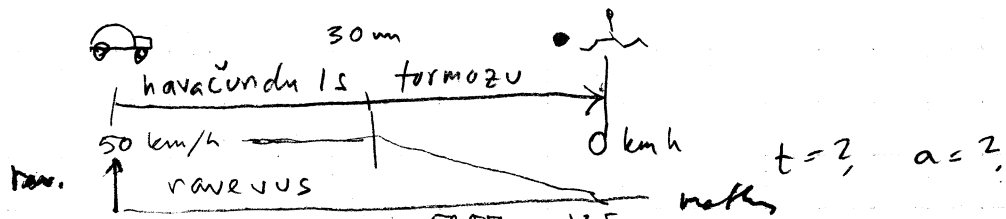
Matken ravevun kaevajes



keski ravevus  $a \cdot \frac{t}{2}$

matken  $a \cdot \frac{t}{2} \cdot t = at^2/2$

Ezimerki. Mašinan azeitamine



$$\text{ravevus} = 50 \text{ km/h} = \frac{50000}{3600} = \frac{125}{9} \text{ m/s}$$

$$\text{havačundu matken} \quad 50 \text{ km/h} \times 1 \text{ s} = \frac{50000}{3600} \text{ m} = \frac{125}{9} = 13.8 \text{ m}$$

$$\text{formozu matken} \quad s = 30 - \frac{125}{9} = \frac{145}{9} \approx 16.2$$

hitteid dagaogose hitteid a , aigua t ?

$$at = 50 \text{ km/h} = \frac{50000}{3600} = \frac{125}{9} \text{ m/s}$$

$$\frac{1}{2} at^2 = s$$

$$\frac{1}{2} vt = s$$

$$\frac{125}{9} \cdot t = \frac{145}{9} \Rightarrow t = \frac{145}{9} \cdot \frac{2 \cdot 9}{125} = \frac{29}{25} \cdot 2 = 2.32 \text{ s}$$

$$a = \frac{v}{t} = \frac{125}{9} \cdot \frac{25}{2 \cdot 29} = 5.98$$

