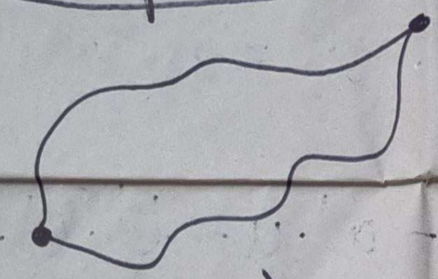
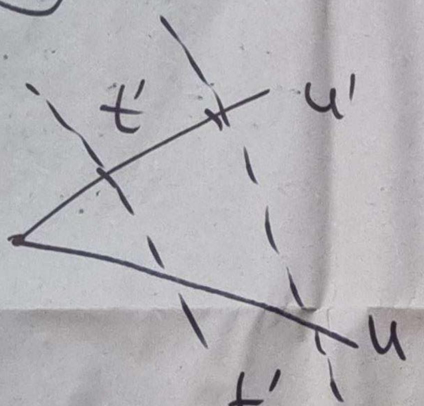
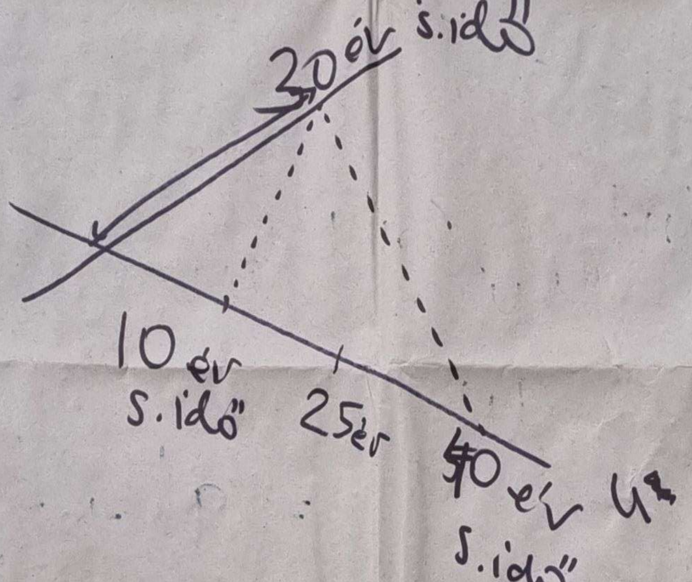
ZØ1

Ikerparadoxon





$$\frac{t'}{\sqrt{1-|v|^2}}$$



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Sebességösszeadási paradoxon

v : B seb. A-hoz

w : C seb. B-hez

$$\alpha := \frac{1}{\sqrt{1-|v|^2}} \qquad \beta := \frac{1}{\sqrt{1-|w|^2}} \qquad \gamma := \alpha \cdot \beta \cdot (1 + v \cdot w)$$

$$v \oplus w = \frac{\alpha \cdot (\beta + \gamma)}{\gamma (1+\alpha)} v + \frac{\beta}{\gamma} w$$

helytelen $\in \frac{S_{u_A}}{T}$, $v \in \frac{S_{u_A}}{T}$, $w \in \frac{S_{u_B}}{T}$

$-w$

$-v$

$$(-w) \oplus (-v) \neq -(v \oplus w)$$

$$v_{u_B u_C} \in \frac{S_{u_C}}{T}$$

$$v_{u_C u_A} = B_{u_A u_B} v_{u_C u_B} \oplus v_{u_B v_A}$$

$$B_{u_B u_C} v_{u_B u_C} = -v_{u_C u_B} \in \frac{S_{u_B}}{T}$$

ált. nem igaz $B_{u_A u_C} v_{u_B u_C} \neq -B_{u_A u_B} v_{u_C u_B}$

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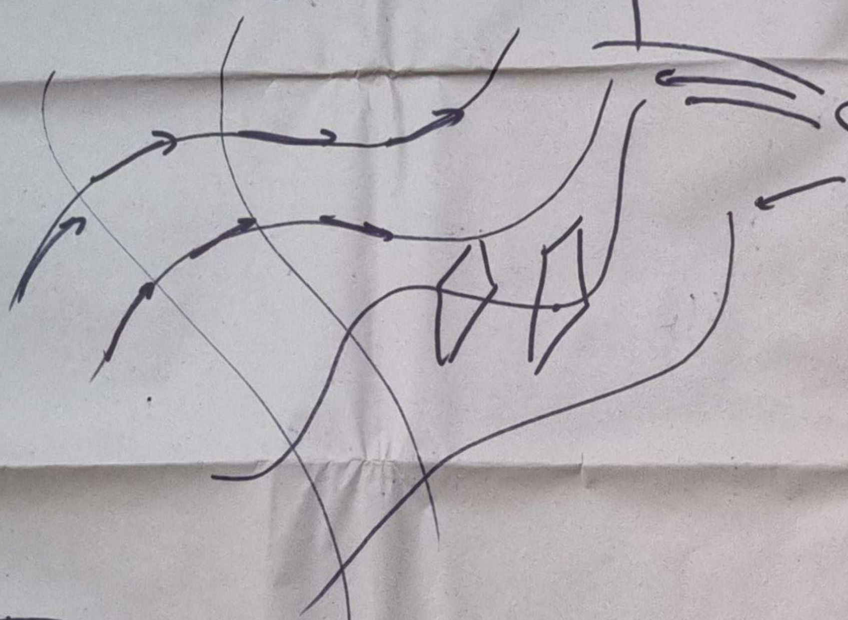
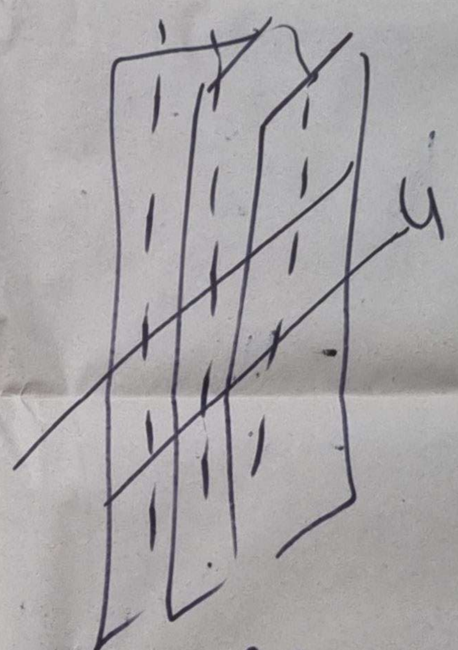
Z03| **Nemtehetetlenségi megfigyelők**

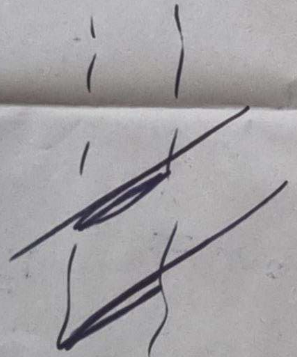
$U : \underset{o}{M} \rightarrowtail \frac{M}{I}$ $\qquad U \cdot U \equiv -1$



S_U maximális integrálgörbék



Frobenius-kritérium st. szinkronizációs felületek pontosan akkor léteznek,



h_U

$D \wedge (U^\flat)_{[x]}(x, y) = 0 \quad \forall x, y : \; x \cdot U = 0, \; y \cdot U = 0$

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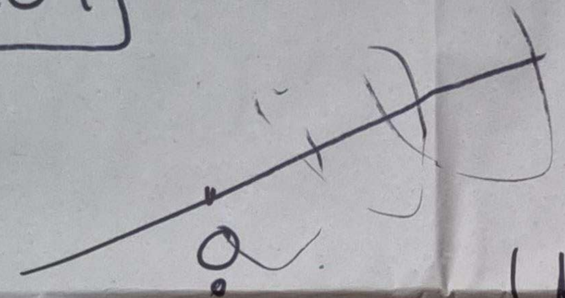
Z04)



$\underset{\circ}{o} + T_u$ $\Omega \in \frac{S_u \wedge S_u}{T}$ szögteb

$$U[\underset{\circ}{x}] := \frac{u + \Omega \pi_u(\underset{\circ}{x} - \underset{\circ}{o})}{\sqrt{1 - |\Omega \pi_u(\underset{\circ}{x} - \underset{\circ}{o})|^2}}$$

$$\mathrm{Dom}\, U = \{ \underset{\circ}{x} \in \underset{\circ}{M} \mid \underbrace{1 - |\Omega \pi_u(\underset{\circ}{x} - \underset{\circ}{o})|^2}_{} \geq 0 \}$$

$$S_u \,(r \text{ sugarú kör}) = \frac{2\pi r}{\sqrt{1 - \omega^2 r^2}}$$

ω

$$c_+ = \frac{1}{1 + \omega \cdot r} \qquad c_- = \frac{1}{1 - \omega r}$$

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