

$u \in V(1)$

Sh

$\overline{b_n}$

$X + \overline{F}_u$

szlm.

BIL.

poz. DEF.

$b_n: M \times M \rightarrow$

$\ll \otimes \ll$

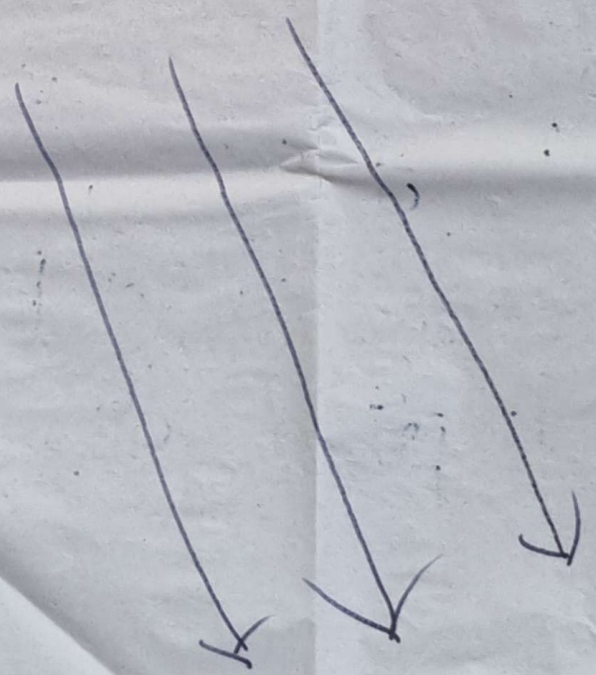
szlm.

BIL.

poz. szlm. DEF.

MAGJA

$\overline{F}_u$





K11

CTM: (M, F, L, T, P, R)

AHOL

M: MD IR. Af. M

T → U T

F: ID. M.

T → NY, DCS. K. K

L: TAV. M.

P: T → F +

$M \times M \rightarrow V(1)$   
 $\rightarrow L \otimes L$



412) VIL. VON.: ER. ID. S2.

TEH. V. V.

$$f_c(x, y) = \int \dots$$

A diagram showing a line segment with points  $x$  and  $y$ , and a function  $p(x-y)$ .

MEGF.:

$N: M \rightarrow V(1)$

~~→ → →~~  
~~→ → →~~  
~~→ → →~~

TEH. M.:  $U(x) = u^{e_{V(1)}} \quad \forall x \in \text{Dom } U$



13

$$S_m := M / \mathbb{F}_m$$

3D / R. AF.

$M / \mathbb{F}_m$  FÖLÖTT

$\in \mathbb{R}^n$  - TER-

VEKTOROK

TAJ.:  $\sqrt{b_m(y-\dot{x}, y-\dot{x})}$

$b_m(x, y)$

$$x + \mathbb{F}_m, y + \mathbb{F}_m$$

$$x + \mathbb{F}_m, y + \mathbb{F}_m$$



411) LTM-EK 120 Morfija

$$M: P.L. \left\{ \begin{matrix} a_0 + a_1x + a_2x^2 + a_3x^3 \\ a_0, a_1, a_2, a_3 \in \mathbb{R} \end{matrix} \right\}$$

$$\overline{LTM} \quad \left[ \begin{matrix} VAGX \quad x \mapsto b_0 + b_1 \sin x + \end{matrix} \right]$$

$$LTM: \left[ \begin{matrix} (M, T, L, \hat{T}, \hat{P}, \hat{k}) \\ (M, \hat{T}, \hat{L}, \hat{T}, \hat{P}, \hat{k}) \end{matrix} \right] + b_2 \sin^2 x +$$

$$+ b_3 \sin^3 x$$



15

$A, M, N$

monot:

$\exists L: M \rightarrow \hat{M}$

ir.-T.

Aff. B1)

$(L: M \rightarrow \hat{M})$

$A \neq 1 \neq$

monot:

$L(y-x) =$

$\exists f: f \rightarrow \hat{f} : R.T.$

$L(N.B1)$

$L(y) - L(x)$

$\exists L: L \rightarrow \hat{L}$

$: R.T. L(N.B1)$

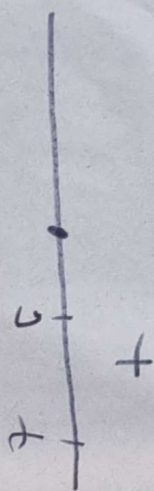


1915

UTM, UTM

12071, HA

F. F. → F. : PZ. EGY-267



F. = : 3

A. F. : F. = 1/3

z : 11 → 11 : m 6 11 + z<sup>m</sup> = in

A 21611 : z 1 = 1/2



17

(1)

$\lfloor T \rfloor$

$\vdash$

$T$

(11)

$A \quad X \in T \Rightarrow$

$X \vdash X$

$P(X) \vdash - \vdash$

$P(X)$

$P: M \rightarrow F$

$\Rightarrow$

$u \in U(1)$

$\mapsto$

$u \in U(1)$

(111)

$b_m(x, y)$

$\vdash$

$\frac{<}{m^2}$

$b_m(x, y)$

$\frac{P(X)}{P(X)} \in$

$\vdash$

$< \vdash \vdash$



18

EGX LTH

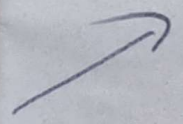
SLTHM. - JA:

OLXAN ÖNTH VALD ROTH.

$f := id \neq 1$   $z: id_L$

$\boxed{L}$

$L: M \rightarrow M$   $|R. -T$  Aff. B(1).



$x \mapsto x + a$   $PL. (LX)$

$L: VEKTORE$   $SLTH$ .



K19

$\mathcal{L} \in \mathcal{T} \neq \mathcal{N}$ . OBJ:  $(j \in \mathcal{L}, R, \Omega, \dots)$

$\neq \mathcal{N}$  -  $\mathcal{L}$  AG UGXANOVAN /  $E \in \mathcal{G} \in \mathcal{E} \mathcal{N}$

A TÉRIBŐBEN: HA  $\mathcal{T} \in \mathcal{R}$   $\mathcal{M}$  -  $\mathcal{S}$   $\mathcal{M}$   $\mathcal{M}$ .  
ÉRT!

$\mathcal{K}$   $\mathcal{O}$   $\mathcal{T}$   $\mathcal{I}$   $\mathcal{H}$   $\mathcal{K}$   $\mathcal{E}$   $\mathcal{T}$   $\mathcal{O}$   $\mathcal{S}$   $\mathcal{S}$   $\mathcal{E}$

$\mathcal{P}$   $\mathcal{L}$ .  
 $\mathcal{C}$ ,  $\mathcal{C}'$   $\mathcal{V}$   $\mathcal{L}$ .  $\mathcal{V}$ . :  $\mathcal{C}' = \mathcal{L}[\mathcal{C}]$

$\mathcal{U}'$   $\mathcal{U}'$   $\mathcal{M} \in \mathcal{G} \mathcal{F}$ . :  $\mathcal{L}[\mathcal{D}_{\text{an}} \mathcal{U}] = \mathcal{D}_{\text{an}} \mathcal{U}$   
 $\mathcal{U}''(\dot{x}) = \mathcal{L} \mathcal{U}(\dot{x})$   $[\# x \in \mathcal{D}_{\text{an}} \mathcal{U}]$



EGYEN OBJ: SZHM-1:

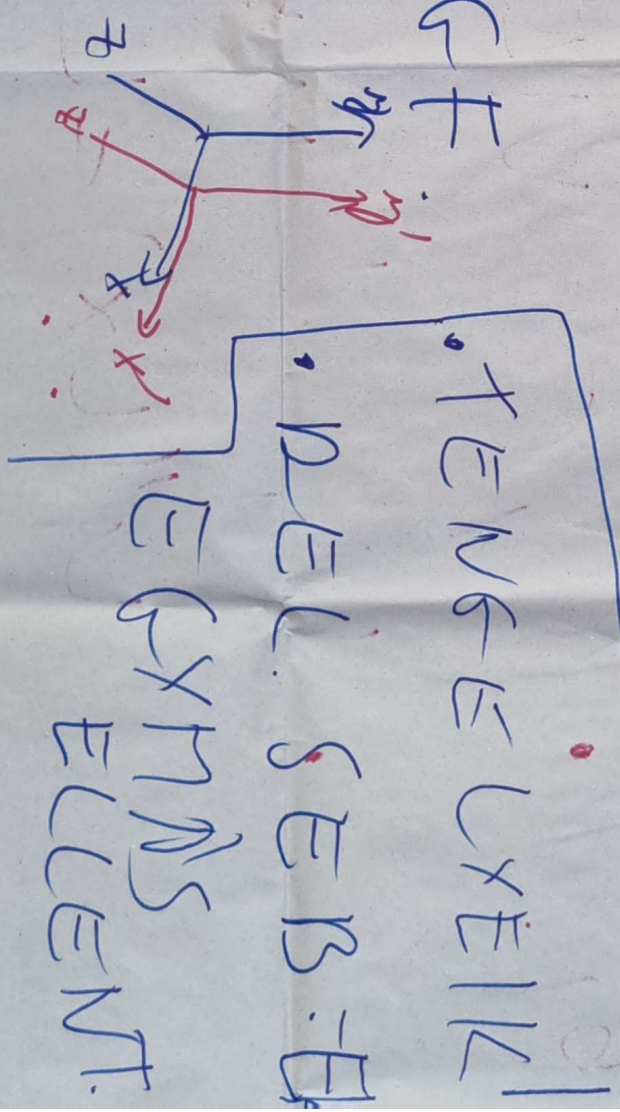
HA AZ OBJ: 1VVAN 1ANS

PL. U "TEHTE TEL. RENVO-

STRUK EK V-EK"

M1: TEH MEGF

SZOKASOSAN:





K22

KÜL. TET. MEGET. T:ER VEKTORAI

$\dot{S}_u$

$\dot{S}_{u'}$

KÜL. 4.

M1: CSAK MÖZG ~~AS~~ IN A NYOLK,

$u, u'$ : ELVÁR JUK EGY OLYAN

B  $u' u$  VEKTORI SZIMM. LÉTEZÉ-

$B'_{uu} = u'$

$u' u - \text{HÖZVISZ. MÖZG. IN. - T}$   
ECCENT. SET HÖZ



1222

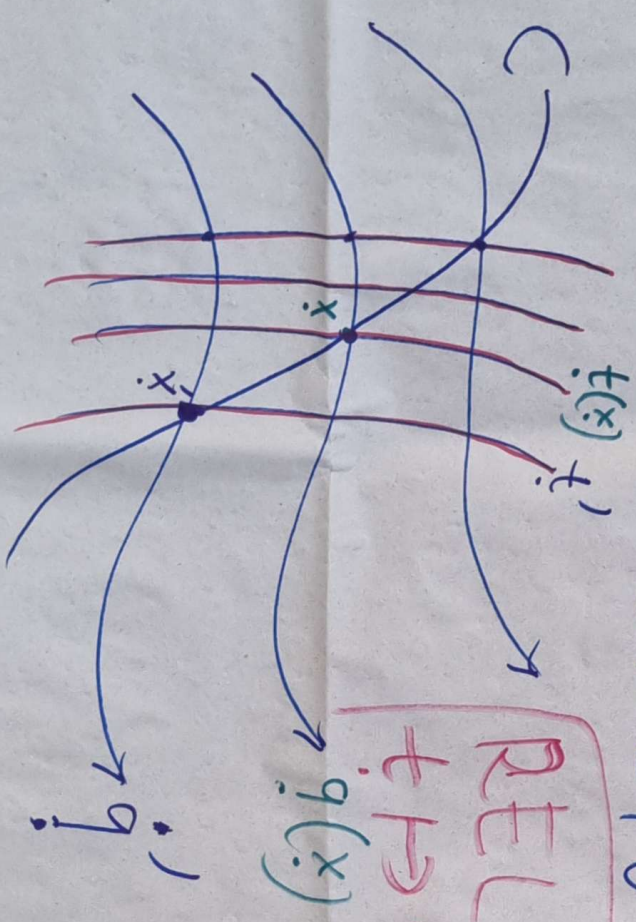
$B_{u,u}$  :  $u \rightarrow T \phi_L$   $u' \rightarrow T \phi_R$   $u \rightarrow T \phi_L$   $u' \rightarrow T \phi_R$

4422

EGX LTM Normals

((( S2INKR )))) MEGF. + S2INKR. : VON. R. HA 3 B

S2INKR 2012 10 : EGXIDEJUSEL G



REL.S. :  $t \mapsto \frac{dq(t)}{dt}$

FOLYTONOS

LETRE HONSA

$t \mapsto q(t)$  Mozgás: 100%



K23

EGXENLETES

szikk:

hiper-  
3D

$T := M/S$

EGY

Affin<sup>ter</sup>  
 $S < M$

Sikok

Term. 3D

ALTER VEGETI

x E S NO EGX-

10EJU, HHA

x-E L  
EGYID:  
x-x E S

S, TRANSV.

KEU LEGXEN

A ABSZ. S-RE

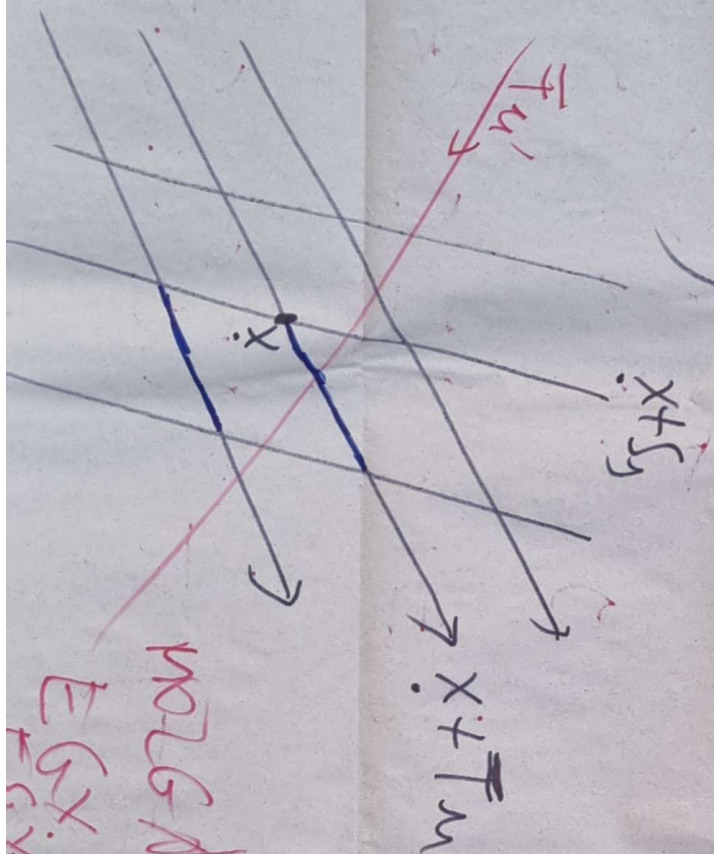


TEH. VON. R. :

TEH. MEGT. +

EGYENL. SZINKR.

$(u, s_0)$



MOZGÁS-  
EGYENL. VON.

$$m \rightarrow T_x s_m$$

$$x \mapsto (x + s_0, x + T_u)$$

Affin Ue'kep.

LET PILC. KÖZÖTT

A TELEPONTBAN

UGYAN ANNYI

SADAT 100 TECLK EL