

Handwritten mathematical notes and symbols:

- Top left:  $\int \frac{1}{x} dx = \ln|x| + C$
- Top middle:  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
- Top right:  $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$
- Bottom left:  $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$
- Bottom middle:  $\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$
- Bottom right:  $\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$

(I)  $\Rightarrow$  (II)  $\lambda \neq 0$  VASR/H'

$\mathbb{R} \times \mathbb{R} + \mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R} \times \mathbb{R}$   
 $\mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R} \times \mathbb{R}$

$\mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R} \times \mathbb{R}$   
 $1. \mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R} \times \mathbb{R}$

(II)  $\Rightarrow$  (III)

$\mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R} \times \mathbb{R}$   
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$m \implies m+1:$

$g_1, \dots, g_{m+1} \in \mathbb{F}, \quad \#_1, \dots, \#_{m+1} \in \mathbb{S}$

$\underbrace{\begin{matrix} m+1 \\ \curvearrowright \\ \vdots \\ \curvearrowright \\ 1 \end{matrix}}_{g_i \#_i} \quad \underbrace{\left( \begin{matrix} 3 \\ \curvearrowright \\ \vdots \\ \curvearrowright \\ 1 \end{matrix} \right)}_{g_i \#_i} + g_{m+1} \#_{m+1} \in \mathbb{S} \parallel$



$K^X$

$\cong \mathbb{P}$

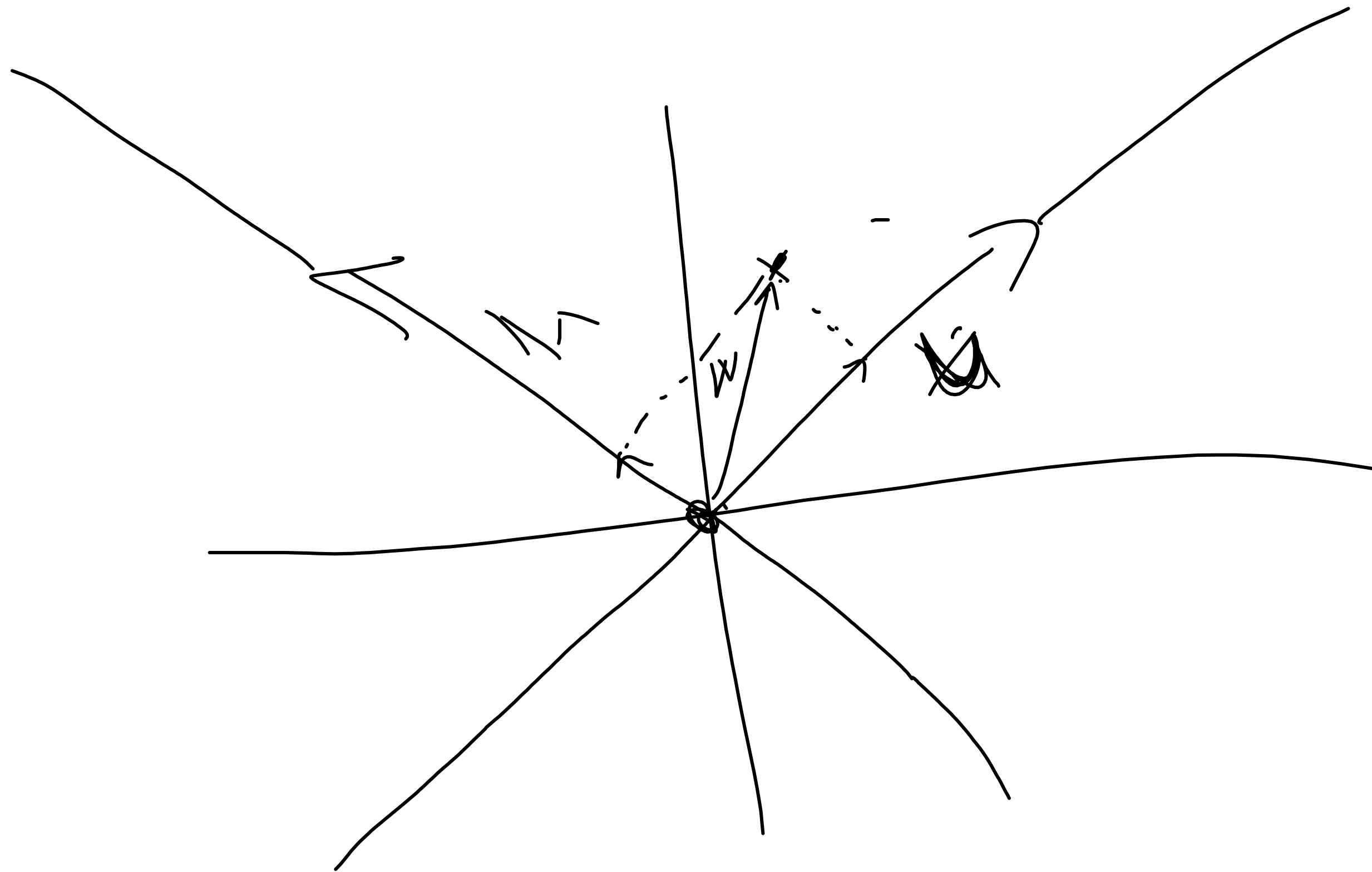
$K(X)$

$\cong \{f \in K^X : \dots\}$

$\{x \in X : f(x) \neq 0\}$   
je množina

$\mathbb{R}^3$

$\mathbb{C}^3$



$\mathbb{R} \times \mathbb{R} \cong \mathbb{R}^2$

$\left( \sum_{i=1}^3 a_i x_i \right) + \left( \sum_{i=1}^3 b_i x_i \right) \in \langle X \rangle$

$\langle X \rangle \cong \left\{ \sum_{i=1}^3 a_i x_i : a_1, \dots, a_3 \in \mathbb{R}, x_1, \dots, x_3 \in X \right\}$

$\cong \mathbb{O} \cong \left( \sum_{i=1}^3 a_i x_i \right) \in \langle X \rangle$

$\left( \sum_{i=1}^3 a_i x_i \right) \cong \sum_{i=1}^3 (a_i \cdot x_i) \in \langle X \rangle$

$$\cancel{x} \in X$$

$$\cancel{x} = 1 \cdot \cancel{x} \in [X]$$

$$\varepsilon \in [X]$$

,"

$$\sum_{i=1}^3$$

$$\varepsilon \in \left[ \begin{array}{c} \cancel{x} \\ \cancel{x} \end{array} \right]$$

$$\varepsilon \in [Y]$$



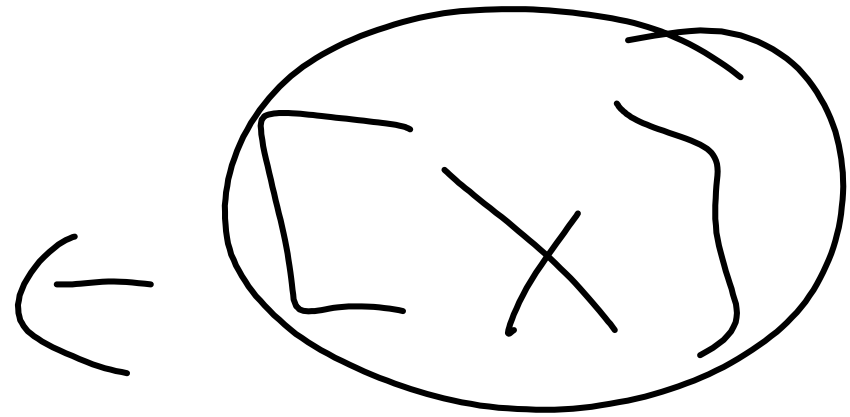
$$(a) \quad X \text{ VP} \Rightarrow X = \square X$$

$$\Leftarrow \in \square X$$

$$\Leftarrow \bigcup_{i=1}^3$$

$$a: X_i$$

$$\cup$$



$$\Leftarrow X$$

$(2.1) \quad X \cong S, \quad S \stackrel{VP}{\cong} [X] \cong S$   
 $u \in [X], \quad u \stackrel{3}{=} \bigwedge_{i=1}^n x_i \in S$

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2.3. (e)  $[X] \subseteq [[X]]$   
 Zgodno z (d).

$$\Rightarrow: \mathbb{R} \in [\mathbb{R}] \stackrel{2}{=} [\mathbb{R} \cup \mathbb{R}] = \mathbb{R}$$

$$\mathbb{R} \in [\mathbb{R} \cup \mathbb{R}]$$

$$\mathbb{R} = \sum_{i=1}^3 a_i x_i + b$$

$$+ b \mathbb{R} =$$

$$\sum_{i=1}^3 a_i x_i + b \sum_{j=1}^3 c_j x_j$$

$\in [\mathbb{R}]$



$$S + T = \{ x + y : x \in S, y \in T \}$$

$$0 + 0 = 0 \in S + T$$

$$Q \cdot (x + y) = (Qx) + (Qy) \in S + T$$

$$\begin{pmatrix} x_1 + y_1 \\ x_2 + y_2 \end{pmatrix} + \begin{pmatrix} x_2 + y_2 \\ x_1 + y_1 \end{pmatrix} = \begin{pmatrix} x_1 + x_2 \\ y_1 + y_2 \end{pmatrix} + \begin{pmatrix} y_1 + y_2 \\ x_1 + x_2 \end{pmatrix} \in S + T$$

$$\int_{\mathcal{U}} \int_{\mathcal{S}+T} - \int_{\mathcal{U}} \int_{\mathcal{S}+T}$$

$$p = p + 0 \quad p \mathcal{S} + T$$

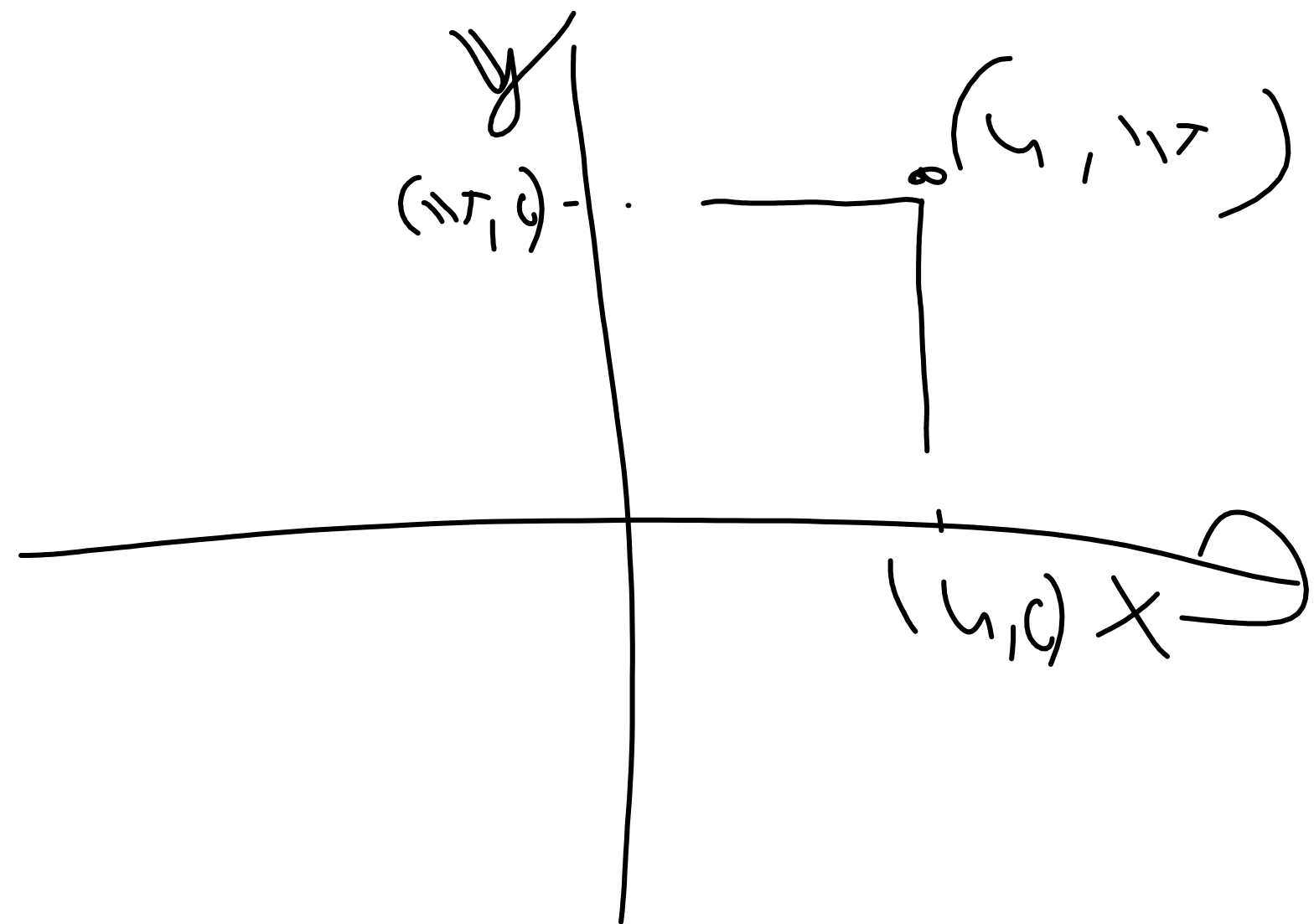
$$\int_{\mathcal{U}} \int_{\mathcal{S}+T}$$

$$\mathcal{S}+T \subseteq [\mathcal{S}+T]$$

Bohm

$$\int_{\mathcal{U}} \int_{\mathcal{S}+T}$$

$$1 \cdot \mathcal{S} + 1 \cdot \mathcal{K}$$

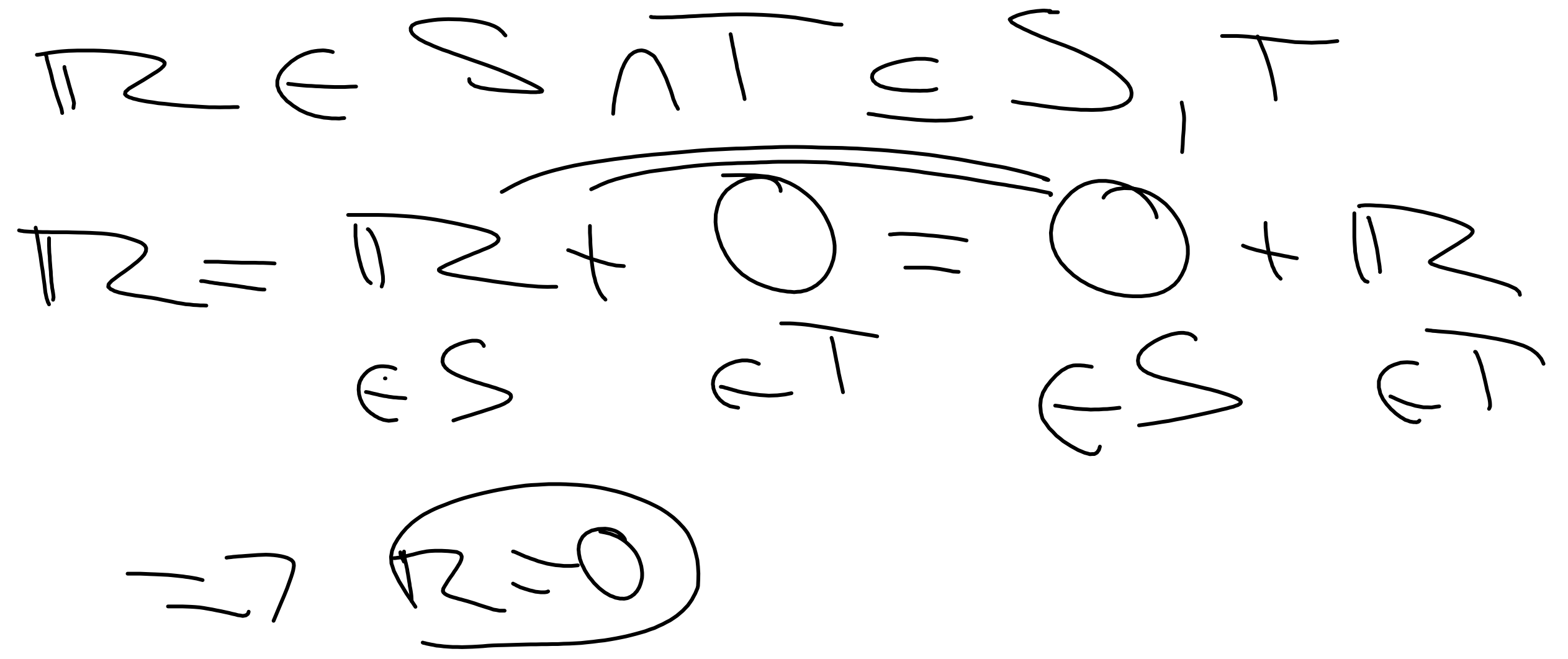


$\Rightarrow$   
 $\mathbb{R} \oplus \mathbb{S} + \mathbb{T}$   
 $\mathbb{R} \oplus \mathbb{S} = \mathbb{R}' + \mathbb{S}'$

$\mathbb{O} = \mathbb{R} - \mathbb{R}' = \mathbb{S}' - \mathbb{S} = \mathbb{O}$



← :



$$(a) \quad u \neq 0$$

$$c \cdot u = 0 \Rightarrow \boxed{c = 0}$$

$$u = 2v$$

$$1 \cdot u + (-2)v = 0$$

$$(b) \quad u, v \quad \rightarrow \quad (c, d) \neq (0, 0)$$

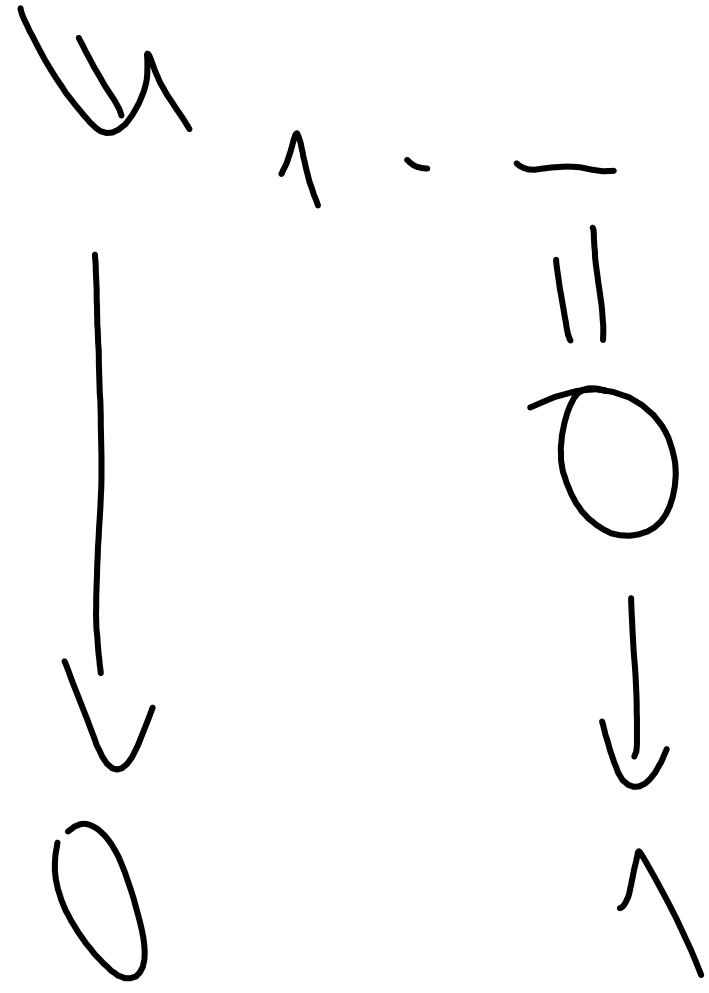
$$c u + d v = 0 \quad | : c \quad c \neq 0$$

$$u + \frac{d}{c} v = 0$$

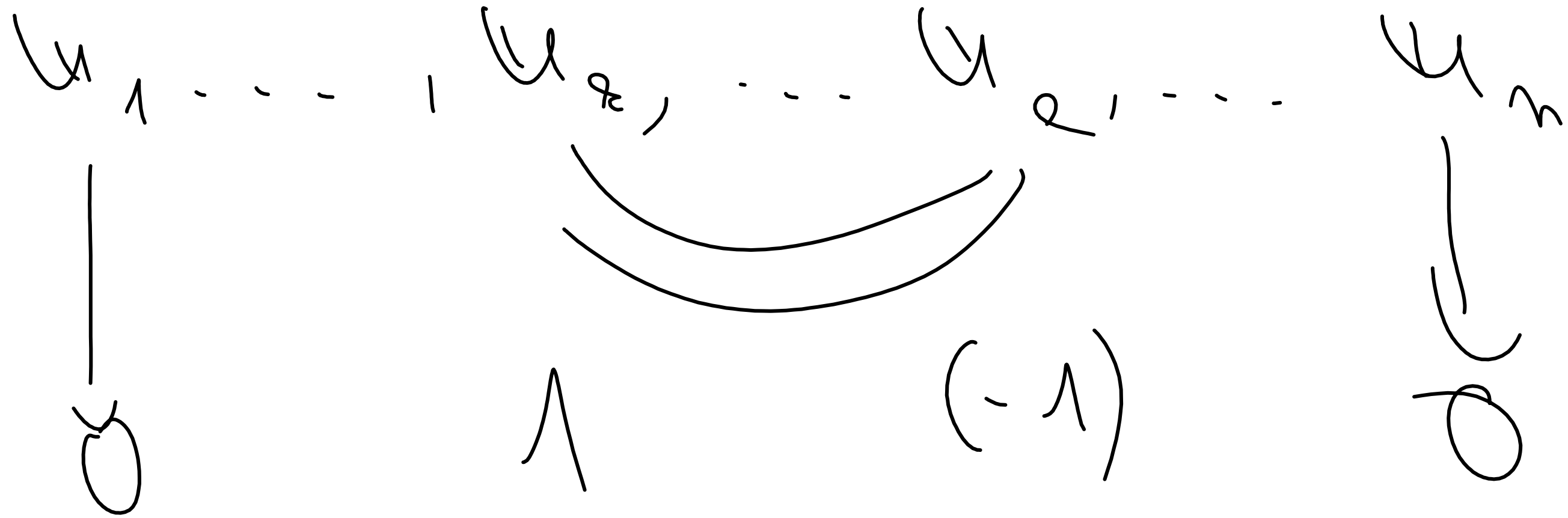
$$u = \left( -\frac{d}{c} \right) v$$

(C)

22:



(a)





(III)  $\Rightarrow$  (I)

$\mathcal{U}_i \parallel \mathcal{N}_i$   
 $\# \mathcal{U}_i$

$C_i \mathcal{U}_i$

$\mathcal{N}_i$

$C_i \mathcal{U}_i \parallel \mathcal{O}_i$

$C_i \mathcal{U}_i \parallel 1$

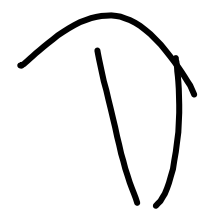
$\Rightarrow: u_1, \dots, u_n \text{ L.N.}$

~~$\in \{u_1, \dots, u_n\}$~~

~~$\sum_{i=1}^n c_i u_i = \sum_{i=1}^n d_i u_i$~~

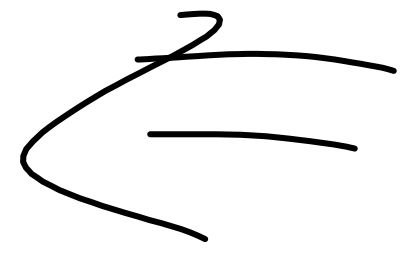
$\Rightarrow \sum_{i=1}^n (c_i - d_i) u_i = 0 \Rightarrow$

$c_i = d_i$



$\forall i$

$c_i - d_i = 0$



$$\sum_{i=1}^n c_i \cdot \psi_i \parallel 0$$

$\parallel$

$$\sum_{i=1}^n 0 \cdot \psi_i \in [\psi_1, \psi_n]$$

$c_i \parallel 0 \cdot \psi_i$



$u_1, \dots, u_n, v_1, \dots, v_m$

1.  $\mathbb{R}^n \ni [u_1, \dots, u_n]$

$u_1, \dots, u_n, v_1$

ANO

NF

LN

$$[u_1, \dots, u_n] = [u_1, \dots, u_n, v_1]$$