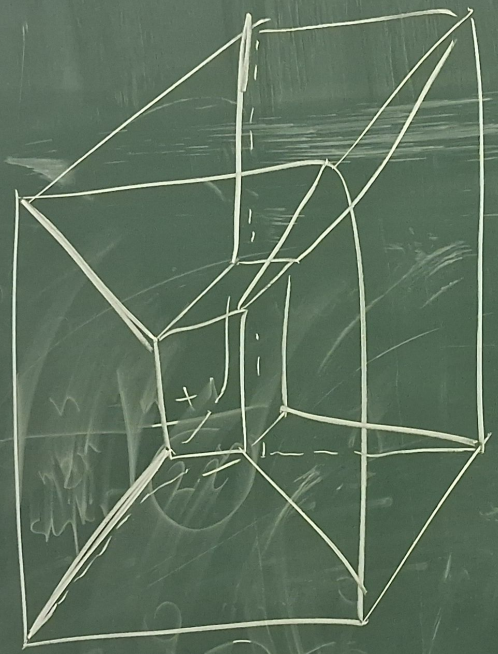
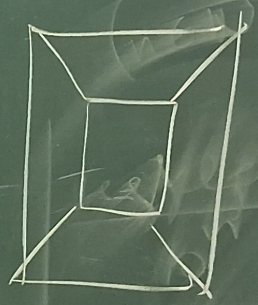
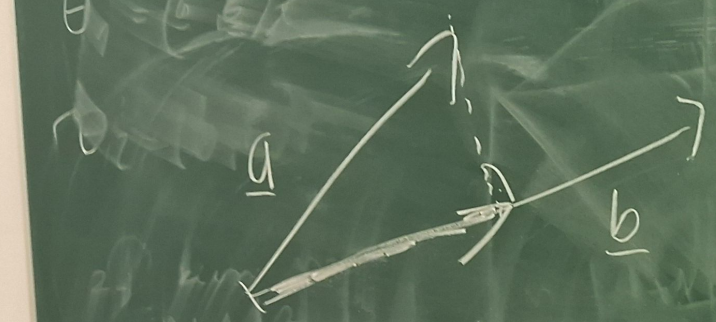
$\theta_1 = (a, b)^T$

$\theta_2 = (b, b)^T$







$\text{proj}_{\underline{b}} \underline{a}$

Kronecker δ

$$\delta_{ij} = \begin{cases} 0, & \text{ha } i \neq j \\ 1, & \text{ha } i = j \end{cases}$$

Levi-Civita szimbólum

$$\varepsilon_{ijk} = \begin{cases} 1, & \text{ha } (i,j,k) \in \{(1,2,3), (2,3,1), (3,1,2)\} \\ -1, & \text{ha } (i,j,k) \in \{(3,2,1), (2,1,3), (1,3,2)\} \\ 0, & \text{ha } i=j \text{ vagy } i=k \text{ vagy } j=k \end{cases}$$

$$\underline{a} \times \underline{b} = \begin{pmatrix} a_1 \\ a_2 \\ a_3 \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} a_2 b_3 - a_3 b_2 \\ a_3 b_1 - a_1 b_3 \\ a_1 b_2 - a_2 b_1 \end{pmatrix} = \sum_{i=1}^{3} \sum_{j=1}^{3} \varepsilon_{ijk} a_j b_k$$