#### VEKTORJI

### 1. LINEARHA ODVISHOST

NI DE LIH. ODVISEH OD NA.

No LIH. ODU. OD NO IN NO

#### VEKTORSKI PRODUKT = 5.

212 H 212

$$\vec{\alpha} \times \vec{b} = -(\vec{b} \times \vec{\alpha})$$

## MESANI PRODUKT = V PARALELPIP.

## SKALARHI PRODUKT = 5 7 PRINCE

$$Pr_{\overrightarrow{x}}\overrightarrow{y} = \frac{\overrightarrow{x} \cdot \overrightarrow{y}}{|\overrightarrow{x}|^2} \cdot \overrightarrow{x} (PROJ. y HA x)$$

$$\cos l = \frac{\vec{x} \cdot \vec{y}}{|\vec{x}| \cdot |\vec{y}|}$$

#### DETERMINANTA

$$\overrightarrow{X} \times \overrightarrow{y} = \left( \begin{vmatrix} x_1 & x_3 \\ y_2 & y_3 \end{vmatrix}, - \begin{vmatrix} x_1 & x_3 \\ y_1 & y_3 \end{vmatrix}, \begin{vmatrix} x_1 & x_2 \\ y_1 & y_2 \end{vmatrix} \right)$$

#### V TRISTRANE PIRAMIDE

$$V = \frac{\left| (\vec{a}, \vec{b}, \vec{c}) \right|}{\left( \vec{a}, \vec{b}, \vec{c} \right) = \left( \vec{a} \times \vec{b} \right) \cdot \vec{c}}$$

$$(\overrightarrow{x} \times \overrightarrow{y}) \times \overrightarrow{z} = (\overrightarrow{x} \times \overrightarrow{z}) \cdot \overrightarrow{y} - (\overrightarrow{x} \times \overrightarrow{z}) \cdot \overrightarrow{x}$$

#### PREMICA

## TOCK

$$d = \frac{x - xA}{a} = \frac{y - y_A}{b} = \frac{z - z_A}{c}$$

$$B(2,5,3)$$
  $\overrightarrow{AB} = (1,3,2)$ 

$$X = 1 + 1$$

#### RAVHIHA

$$ax + by + cz = d$$
  
 $(a,b,c) - HORMALA$ 

## RAZDALJE

$$\frac{\text{MED TOCKAMA}}{d(A_1B) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}}$$

# · MED TOCKO IH RAVHIHO

$$d(T_1 \Sigma) = \frac{|a \times 1 + b \cdot y_1 + c \cdot z_1 - d|}{\sqrt{a^2 + b^2 + c^2}}$$

## MED TOCKO IN PREMICO

## ·MED PREMICO IN PAUNINO

## MED RAVHIHAMA

OSE SEKATA- RAZDALDA = O OSE HE SEKATA =>d(P,E)