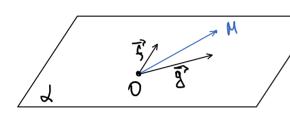
(3) Koopguhorthu cucremh

Koopguratu 4a Bektoph u Torku

I Adounte 200 pgu HOLTHA CUCTELLION 6 palbulunta Le K=079

T. O-HOVERAB Rektopn



30 7 0° LOWN NOLHOLPEH C

SUN COURCI BY GO EQUHCT BEHA

glouka peal HU MUCha (a1, 02);

 $\overline{\alpha}^{2} = \alpha_{1}.\overline{f}^{2} + \alpha_{1}.\overline{g}^{2} \iff \overline{\alpha}^{2}(\alpha_{1},\alpha_{1})$

Kaybanue, re low, orz) ca koopgunonthite the bektopa or chance koopg. c-lua $K = 0 \vec{j} \vec{g}$

Hera T. Me ot pabhuhata L. Payznexgame

pagnyc-bertopa OM - komnnahapeh c f u g

=> 3! (x,y): OM = x. f + y. g <-> T. M(x,y) cnp. K

Yonobur sa Konutlaphoct & palhuhara:

$$\frac{\partial}{\partial a} (\alpha_1, \alpha_2)$$
 $\frac{\partial}{\partial a} (\beta_1, \beta_2)$

Tou TOTCKU AL(XL, YL); AZ(XZ, YZ); AZ(XZ, YZ); AZ(XZ, YZ)

Ca konuheapyu
$$L = > A_{\perp} \hat{A}_{2} || A_{\perp} \hat{A}_{3} < = > A_{\perp} \hat{A}_{2} = O \hat{A}_{2} - O \hat{A}_{1}$$

$$A_{\perp} \hat{A}_{2} = O \hat{A}_{2} - O \hat{A}_{1}$$

$$A_{\perp} \hat{A}_{3} || (X_{2} - X_{\perp}) y_{2} - y_{1} \rangle$$

$$A_{\perp} \hat{A}_{3} || (X_{3} - X_{\perp}) y_{3} - y_{1} \rangle$$

$$|| (X_{2} - X_{\perp}) y_{3} - y_{2} \rangle$$

$$|| (X_{2} - X_{\perp}$$

TI Appulha Koopgulatha cuctema &

$$\vec{\alpha} = \alpha_1 \cdot \vec{j} + \alpha_2 \cdot \vec{g} + \alpha_3 \cdot \vec{k} \iff \vec{\alpha} \cdot (\alpha_4, \alpha_2, \alpha_3) \cdot cnp k$$
 $\vec{OM} = x \cdot \vec{j} + y \cdot \vec{g} + z \cdot \vec{k} \iff M(x, y, z) \cdot cnp \cdot k$

$$\vec{G}$$
 (a₁, a₂, a₃)
 \vec{G} (b₁, b₂, b₃)
 \vec{C} (C₁, C₂, C₃)
 \vec{G} (C₁, a₂, a₃)
 \vec{G} (C₂, a₃)
 \vec{G} (C₃, a₂, a₃)
 \vec{G} (C₄, a₂, a₃)
 \vec{G} (C₄, a₂, a₃)

$$\overrightarrow{Q}$$
, \overrightarrow{Q} , \overrightarrow{C} - Kown phothaphu $\langle = \rangle$ $\begin{vmatrix} a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \\ c_1 & c_2 & c_3 \end{vmatrix} = 0$

New Section 4 Page

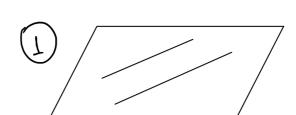
A_A, A₂, A₃ -konuheaphn $\langle - \rangle$ A_AA₂ || A₁A₃ $\langle - \rangle$ $\begin{vmatrix} \chi_L & J_A & 1 \\ \chi_2 & J_2 & 1 \\ \chi_3 & J_3 & 1 \end{vmatrix} = 0$ $\begin{vmatrix} \chi_A & Z_L & 1 \\ \chi_1 & Z_2 & 1 \\ \chi_3 & Z_2 & 1 \end{vmatrix} = 0$ $\begin{vmatrix} \chi_A & Z_L & 1 \\ \chi_3 & Z_2 & 1 \end{vmatrix} = 0$

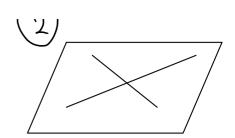
A₁, A₂, A₃, A₄ - kownnahaphu (=) -> -> -> -> -> -> (=)

1) AKC K=0xy A(4,6); B(1,-1); C(2,4); D(1,5)

Da ce Hameps KooppulloituTe la npecethata Totka M ha AB u CD, ako takolloa vous ctbylon.

P....





$$\overrightarrow{AB}$$
 (1-4,-1-6) \overrightarrow{AB} (-3,-4) \xrightarrow{CD} (-1, 1) \xrightarrow{CD} (-1, 1)

Hera T. M (XIX)

$$T.M \in AB = >$$
 $\begin{vmatrix} x & y & 1 \\ 4 & 6 & 1 \\ 1 & -1 & 1 \end{vmatrix} = 0 = > 4x - 3y = 10$

$$T.M \in CD \Rightarrow \begin{cases} x & y & 1 \\ 1 & 4 & 1 \\ 1 & 5 & 1 \end{cases} = 0 \Rightarrow x + y = 6$$

AKC K=0xy2

A(3,4,-2), M(0,2,1), N(4,2,3)

Да се нашерья координостите на върховете

Bucha BABC TOLLOI, Te T.M ga e cpega Ha AB,

ат.N-шеричентър на ДАВС.

Pem! 7.0-HOROLOTO HO K.C.

$$T.M - cpegon Hon AB => OM = \frac{L}{2} (OA + OB)$$

$$X_{M} = \frac{X_{A} + X_{B}}{2} \qquad O = \frac{3 + X_{B}}{2}$$

$$Y_{M} = \frac{Y_{A} + Y_{B}}{2} \qquad Z = \frac{Y_{A} + Y_{B}}{2}$$

$$Z_{M} = \frac{Z_{A} + Z_{B}}{2} \qquad Z = \frac{-2 + Z_{B}}{2}$$

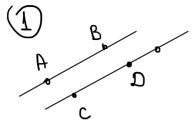
$$=> B(-3,0,4)$$

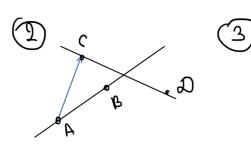
$$\overrightarrow{ON} = \frac{L}{3} (\overrightarrow{OA} + \overrightarrow{OB} + \overrightarrow{OC})$$

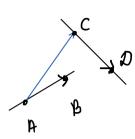
$$A(6,0,1)$$
; $B(-1,3,2)$; $C(5,1,-3)$; $D(6,1,3)$

nonoxellue Ita AB u CD bzamuhao Da ce onpegern

Peur:







KPECTO COLHU

$$\begin{vmatrix} -4 & 3 & 1 \\ 1 & 0 & 6 \\ -1 & 1 & -4 \end{vmatrix} = 34 \neq 0$$

8

A(L,L,O);B(2,L,O);C(L,O,O);D(L,2,O)AB u CD- opecuzación de la torica

$$\frac{\vec{AB}}{\vec{CB}}$$
 \\ \frac{1}{AC}

6) B D AB = CD D (4,4,4) (3,3,3) P(5 (5 15,5) (1,1,1)A $\overline{AB} = \frac{1}{2} \cdot \overline{AC}$, $\tau \cdot A - od \, ya \rightarrow$ $A \cdot B \cdot C - \Lambda e \times a + A \cdot B \cdot C - \Lambda e \times a + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot C + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot C + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot C + A \cdot B \cdot C = A \cdot B \cdot C + A \cdot B \cdot$ AB (1,1,1)