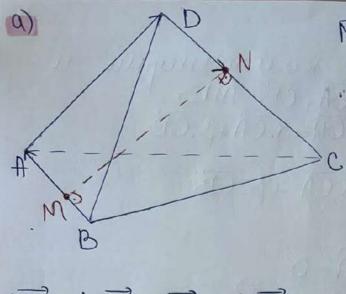
```
Iскапарно произведение спремо ОКС.
 K= OETEZES = OXYZ e ORC - opmonope
 DEITE, ETES, ETES (opmororanha)
  2) |E] = |E2| = |E3| = 1 (HOPLIEDCHA)
E1= E2 = E3 = 1
EI-E2=E2.E3=0
· Hera à (a, a, a) enperso (=) à=a, E, +a, E, +a, E,
        $ (b1, b2, b3) corpaus (5) = b1E1+b2E2+b3E3
Q. B = a1 b1 + a2. b2 + a3. b3
· pasamodhue uly gre morku
Hera As(XI, YI, ZI) & Az(X2, Y2, Z2)
                                           100 100
 1A1A2 =?
OAI = XIEI+41E2+21E3, OA2 = X2EI+42E2+22E3-Hapurawe
   enpello ORC
AIA2= OA2-OA1=) AIA2 (X2-X1, y2-y1, Z2-Z1)
|AIA2|=(X2-X1)2+(42-41)2+(22-21)2
```

Leag. ORC, K= 0xyz A(-1,-1,1) a) PLABC=? of face onpegenu ouga μα ΔABC
B3 abuduluoum om 4-me B(2,-4,4) C(4,-2,6) B) TH EAB, CHI AB, TH(?,?,?), TE. THE nemater Ha BUCOCLIHATER, chychama om C Koul AB. peu.: > Ina AABC? AB (8,-6,3) | numeratio negabilian AC(5,-1,5) $\left(\frac{2}{5}+\frac{6}{1}+\frac{3}{5}\right)$ a) AB (3,-6,3) => |AB|=19+36+9=169=316=154 AC (5,-1,5) =) |AC| = \25+1+25 = \151 BC(2,5,2) = |BC| = V4+25+4 = V25+8=V33 PABC = 3/6 + 1/51 + 1/33 的個기配기配 *ACB > *ABC > & BAC => formametho & ga posmegawe * ACB. HONOROGEO - JEAA (= CHIABOCH. AB = 0 (In) CH = CA + AH AH=KAB, AH MAB=> k>0 B CH. AB=0 = (CA + AA) AB=0 (CA+KAB) AB=0 CA. AB+ b. AB=0=) $(-5.8+1.(-6)+(-5).3)+k5H=0=)5Hk=36=)k=\frac{2}{3}=)AH=\frac{2}{3}AB=)AH(274)$

AH = OH - OA => OH = AH + OA => OH (1, -5, 3) => T.H (1, -5, 3) -8-QH | CH = aCA+ bCB (A, H, B ∈ Inpara) (30g) a+b=1=) b=1-a (7!(a,p)) Hera CH = a.CA+(1-a).CB CHILABOOTI. AB = 0 B(-2,-5,-2) $(\alpha \overline{CA} + (1-\alpha)\overline{CB}).\overline{AB} = 0$ a.CA. AB + (1-a) CB. AB=0 $\alpha.(-15-6-15)+(1-\alpha)(-6+80-6)=0$ $0 = 31.(\alpha - 1) + \alpha 38 = 0$ $-5H\alpha = -18$ a= 18 1 CH= & CA+ = CB OH-OC = 7(0H-OC)+3(0B-OC) OH= FOB+ 于OB $\left(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}\right) + \left(\frac{1}{3}, -\frac{1}{3}, \frac{8}{3}\right) = \left(1, -5, 3\right)$ =) OH(4,-5,3) =) T.H(1,-5,3) 2200 Copello OKC, R=0x12 of Buga nu ca? (30 ymp.) A(0,2,4) B(3,-4,-2) C(5,-2,6) B) H(5,3 0 -2 1 0 -4 1 = 8 | 0 -2 1 0 0 1 2 0 1 (kamo 1-00 zagara) Dagag. OKC, K=0xyz 0) NA(5, 5, 5) MIN(5 A(0,0,-2) MEAB, NECD, MN B(A, O, -A) = 8(-4+8+8)=3.12=36+0 6) 7. H(?, ?, ?), KEGE C(2,0,0)BUCOCUHAMA D(5,3,-3) TETPalglepa AB

-8- (1,-5,3) -8- HA = HO (1,-5,3) =>T.H (1,-5,3) (2H) $|CH| = \alpha CA + \beta CB$ (A, H, B $\in 1$ npaba) (2A) $|CH| = \alpha CA + \beta CB$ (A, H, B $\in 1$ npaba) (2A) $|CH| = \alpha CA + \beta CB$ (A, H, B $\in 1$ npaba) Hena CA = a.CA+(1-a)CB CALABOOTA. AB = 0 (B(-2,-5,-2) $(\alpha \overline{CA} + (1-\alpha)\overline{CB}).\overline{AB} = 0$ a.CA.AB+(1-a)CB.AB=0 $\alpha \cdot (-15 - 6 - 15) + (1 - \alpha)(-6 + 30 - 6) = 0$ $-36\alpha + (1-\alpha).18 = 0$ $-54\alpha = -18$ $\alpha = 1$ CH = 1 CA + 2 CB OH-OC = 1(OH-OC)+3(OB-OC) OH = \$ OF + 3 OB $\left(\frac{1}{3}, \frac{1}{3}, \frac{1}{3}\right) + \left(\frac{4}{3}, \frac{44}{3}, \frac{8}{3}\right) = \left(1, -5, 3\right)$ =) OH(4,-5,3) => T.H(1,-5,3) 23 day Conpersio ORC, K=0x12 (3 yours) A(0,2,4) B(3,-4,-2) 6 Buga Ha ΔABC cropeg x-Te? C(5,-2,6) b) H(?,??), κegemo CHIAB (kamo 1-ba zagara) Daga OKC, K=0xyz armers, sis) nun (sissis), makaba ce A(0,0,-2) MEAB, NECD, MNIAB, MNICD B(4,0,-4) 6) H(?,?,?), KEGEMO HE NEMOTE H C(2,0,0) BUCOELLHAM a npez BEPXa D Ha D(5,3,-3)



$$\begin{array}{c} C \ \overrightarrow{BA}(-4,0,2) = |BA|^2 = 20 \\ \overrightarrow{AB}(5,3,-1) \\ \overrightarrow{DC}(-3,-3,3) = |\overrightarrow{DC}|^2 = 9.3 = 24 \end{array}$$

$$\frac{|MN-000000.\mu\alpha \alpha ub||MN|=d(a,b)}{|20k-22+18b=0|:2}$$

a c a ub

$$|k.20 + (-20-2) + l.(12+6) = 0 \Rightarrow |20k-22+18l=0|:2$$

$$|k(12+6) + (-15-9-3) + l.24 = 0 \Rightarrow |28k-24+24l=0|:(-3)$$

$$| 10k - 11 + 9l = 0 \Rightarrow | 4k - 2 = 0 \Rightarrow k = \frac{1}{2}$$

$$| -6k + 9 - 9l = 0 \Rightarrow | -6k + 9 - 9l = 0 \Rightarrow -\frac{6}{2} + 9 - 9l = 0$$

$$| 6 - 9l = 0 \Rightarrow | 6 - 9l = 0 \Rightarrow -\frac{6}{2} + 9 - 9l = 0$$

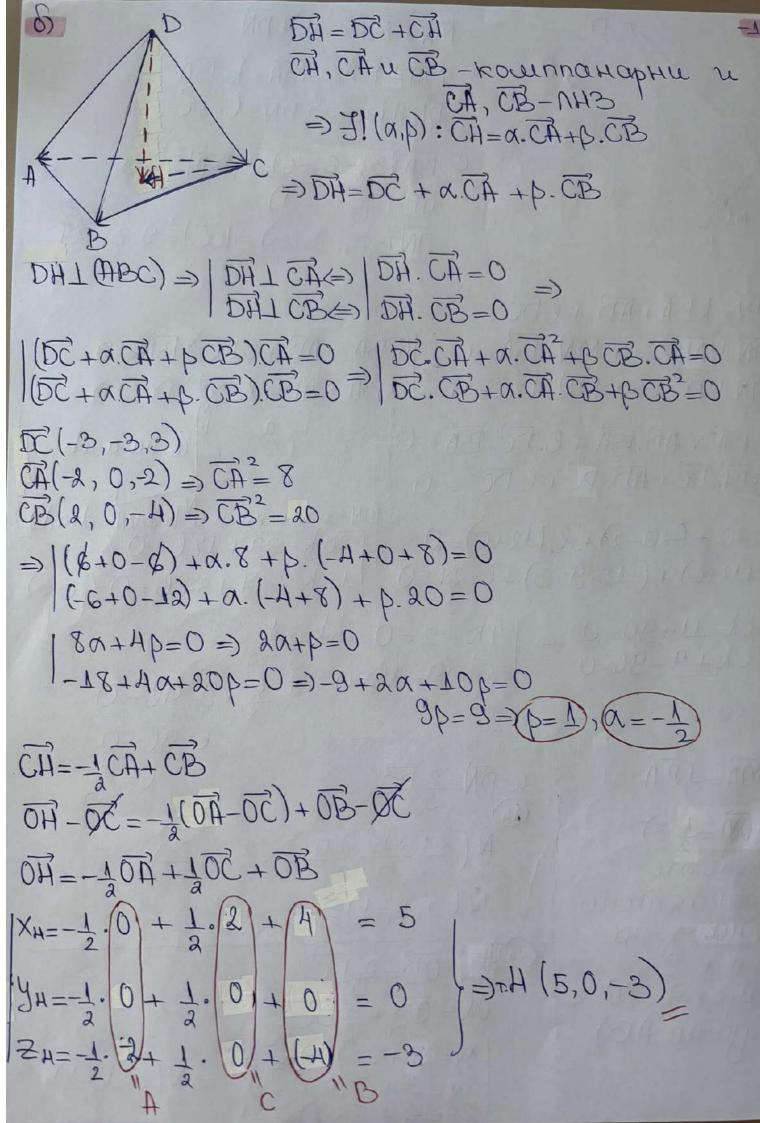
$$\Rightarrow$$
 M(2,0,-3)

(средното apumulerucho на коора на Jaugomo Me среда на АВ)

$$\frac{1}{2} \overrightarrow{DN} = \frac{2}{3} \overrightarrow{DC}$$

$$N\left(\frac{2.2+5}{3}, \frac{2.0+3}{3}, \frac{2.0-3}{3}\right)$$

N(3,1,-1)



Azag Auger e Ryo ABCDAIBICIDA c per continua I (AB=I) a) la ce Hamepu Eventon elly AD a BDA of Jaco Hamepu pazamontuero peu : Beperaquie ORC: AB=0, AB=tO AAL=0 (2-G=AA+AB=-C+B (AB=AB-AA==B-C) BD = BA+AD+DD = -a+5+2 $\cos \star (A_{\perp}D, BD_{\perp})_e = \frac{A_{\perp}B \cdot BD_{\perp}}{|A_{\perp}B| |BB_{\perp}|} = \frac{0}{\sqrt{c}} = 0$ AD. BD1=(B-c)(-a+b+c)=b2-c2=1-1=0 (AID) = \(\frac{1}{AID} = \(\frac{1}{B} = \(\frac{1}{B} = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} \) = \(\frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1}{C} + \frac{1}{B} + \frac{1 =) ADIBDA of Hera TME ALD, TN EBDI: MNI ALD UMNIBDI TOUR ROMO TM CALD => I! KER MB=kAD=k(B-C) TNEBD1=> 7! JEB: BN= J.BD1= 2(-0+12+5) >MN=MD+DA+AB+BN=k(to-c)+(to)+a+7(-a+b+c)= $= \overline{\alpha}(1-3) + \overline{b}(k-1+3) + \overline{c}(-k+3)$ MNI AD () MN. AD=0 MN I BD, (MN. BD, =0 (a(1-9)+p(k-1+9)+c(-k+9)].(p-c)=0 [a(1-8)+b(k-1+8)+c(-k+8)]. (-a+b+c)=0 $= \frac{|-\alpha_{s}(7-9)+\beta_{s}(k-7+9)+C_{s}(-k+9)=0}{|\beta_{s}(k-7+9)-c_{s}(-k+9)=0}$

16-1+3-(-k+3)=0 -(1-3)+(k-1+3)+(-k+3)=0 $1k-1+x+k-x=0 \Rightarrow 2k=1 \Rightarrow k=\frac{1}{2}$ 1-1+7+K-1+7-K+7=0=)39=2 $MN = \frac{1}{2}a^{2} + b^{2}(\frac{1}{2} - \frac{1}{2} + \frac{2}{3}) + c^{2}(-\frac{1}{2} + \frac{2}{3}) =$ = 12 + 15 + 10 MN = \(\overline{MN}^2 = \(\begin{array}{c} 3\alpha + 1\beta \end{array} = \(\beta \alpha + 1\beta \end{array}^2 = \(\beta \alpha^2 + 1\beta^2 + \beta \alpha^2 + \lefta \alpha^2 + \lefta \alpha^2 + \lefta \alpha^2 + \lefta \alpha^2 \end{array} = \(\beta \alpha^2 + \beta \alpha^2 + \lefta \alpha $= \sqrt{\frac{13}{36} + \frac{1}{36} + \frac{1}{36}} = \sqrt{\frac{6}{36}} = \frac{\sqrt{6}}{6}$ (3+3+D110+0+(3)+(3)+(3)+531/=43,3016 (6+ x-15+(6+1-1) =+(6+1) 35