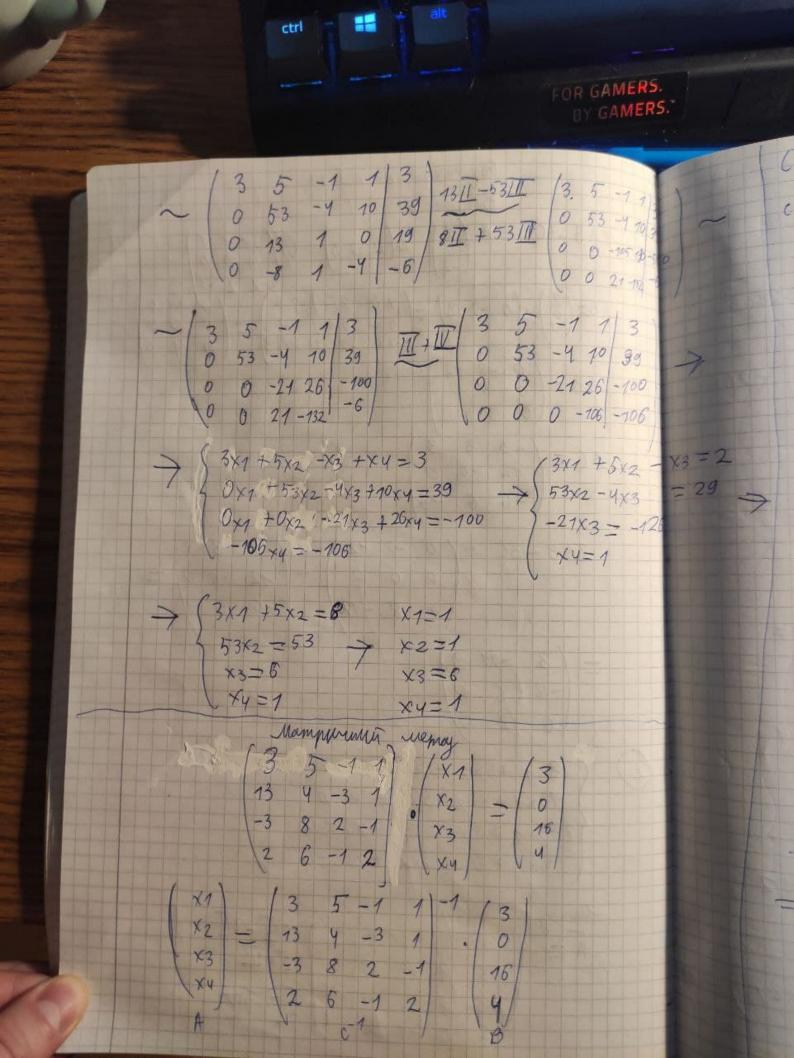
Розрахункова робота Bapiant 6 $0 2 + 8 - 3 A = \begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix} B \begin{pmatrix} 0 - 2 & 3 \end{pmatrix} C \begin{pmatrix} -1 & 1 & 1 \\ 4 - 2 & 0 \\ 2 & 2 & -1 \end{pmatrix}$ $AB = \begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix} \cdot \begin{pmatrix} 0 & -2 & 3 \end{pmatrix} = \begin{pmatrix} 2 \cdot 0 & 2 \cdot (-2) & 2 \cdot 3 \\ 0 \cdot 0 & 0 \cdot (-2) & 0 \cdot 3 \\ -2 \cdot 0 & -2 \cdot (-2) & (-2) \cdot 3 \end{pmatrix} = \begin{pmatrix} 0 & -4 & 6 \\ 0 & 0 & 0 \\ 0 & 4 & -6 \end{pmatrix}$ $248 = \begin{pmatrix} 0 & -8 & 12 \\ 0 & 0 & 0 \\ 0 & 8 & -12 \end{pmatrix}$ $3 = \begin{pmatrix} -3 & 3 & 3 \\ 12 & -6 & 0 \\ -6 & 6 & -3 \end{pmatrix}$ $= \begin{pmatrix} 3 & -71 & 9 \\ -12 & 6 & 0 \\ 6 & 2 & -9 \end{pmatrix}$ $\begin{cases} 3x_1 + 5x_2 - x_3 + x_4 = 3 \\ 13x_1 + 4x_2 - 3x_3 + x_4 = 0 \\ -3x_1 + 8x_2 + 2x_3 - x_4 = 16 \end{cases}$ 2x1 + 6x2 - x3 + 2x4=4 Memog Taycca



(= 1:detC. Cx (= 1 (11 G2 (13 Gy) C21 C22 C23 C24 C31 C32 C33 C34 C41 C42 C43 C44) det C = 3 5 -1 1 13 4 -3 1 = 3 | 4-3 1 -3 8 2 -1 | 6 -1 2 00 -3 8 2 -1 06 2 6-1 2 X3=2 3 -126 13 -3 1 1 1 -1 | 13 4 1 | -3 2 -1 | -3 2 -1 | -1 2 6 2 | 2 -12 13 4 -3 = 3 (16-8 +18-12-4 + 48) --3 8 2 = 3 (16-8 +18-12-4 + 48) -2 6 -1 5 (52+3+6-4-13-12) - (208-18-8-16+78+24)-(-104 + 54 + 76 + 48 - 156 - 12) = 144 - 130 - 268454= --70

(31 = 4 CM= | 4 -3 1 = 16-8+18-12-4+48=58 $\begin{bmatrix} 13 & -3 & 1 \\ -3 & 2 & -1 \end{bmatrix} = -\begin{bmatrix} 52 + 3 + 6 - 4 - 13 - 18 \end{bmatrix} = -26$ $(13 = \begin{vmatrix} 18 & 4 & 1 \end{vmatrix} - 2 (208 - 18 - 8 - 16 + 748 + 24) = 268$ C33 = x (21 = - | 5 -1 1 | = - | 20-8 +6 - 72-5 +16) = -17 Cyz. Cy3 $C_{24} = \begin{vmatrix} 3 & 5 & -1 \\ -3 & 8 & 2 \end{vmatrix} = \begin{pmatrix} -24 + 18 + 20 + 16 - 36 - 15 \end{pmatrix} = \\ \begin{vmatrix} 2 & 6 & -1 \end{vmatrix} = \begin{pmatrix} -24 + 18 + 20 + 16 - 36 - 15 \end{pmatrix} = \\ = -21$

FOR GAMERS. BY GAMERS.*

3
$$A(-2, 1,0)$$
 $B(3,2,4)$ $C(4,-1,2)$ $D(-6,1,5)$
1) $AB = (3+2, 2+1, 4-0) = (5, 1,14)$
 $AB = (3+2, 2+1, 4-0) = (5, 1,14)$
 $AB = (3+2, 2+1, 4-0) = (5, 1,14)$
 $AB = (43, -1-2, 2-7) = (1, -3,-5)$
 $AB = (1, -2, 2-7) = (1, -3,-5)$
 $AB = (1, -3,-5)$
 AB

AL

VA

1

Helge.

3)
$$ABAMERS$$
:

BY GAMERS:

 $ABAMERS$:

 A

M(1, 3, -1) p: 4x-y +52-3 =0; n=(4,-1,5) P1 4(x-1)-1(y-3)+5(z+1)=0 4x-4-y+3+52+5=0 4x-y+52+4=0 $d = \frac{|4.11| \cdot 1}{|4.11| \cdot 1} \cdot \frac{3+5|-1|-3|}{|4.11| \cdot 1} = \frac{14-3-5-3|}{|4.11| \cdot 1} \Rightarrow \frac{7}{|4.11| \cdot 1} = \frac{7\sqrt{9}}{\sqrt{92}}$ = V42 (6) L1: -x+2y-7=0 L2:-2x-2y+7=0 n= (-1;2) n=(-2;-2) -1 + -2 > L2 XL2 cos ap = -1 · 2 + (-2) (-2) - 2 - Vno V1+4 · V4+4 - V90 - 10 p= arcces (Vio) (-x+2 y-7=0 -3x-1420 -2x-2.y-7=0 24=-42+ -3x = 14 29-23 X=-43 y=7 M (-43) =

(4) x-2 = y+8 = = = 1 2x +3y-52 +2 =0 x-2 = 9 +8 = 2 +1 = + x= 2+26 y=-8+14 z=-1-1+ 2(2+24)+3(-8+14)-5(-1-14)+2=0 4+46-24+3+ +5+5++2=0 12t -13 =0 1= 13 X= 25 y=-83 Z=-25 (25 : -83 : -25) - mores vegenmany (8) x2 - y2 =1 62-02=62 C=Va2+82 = V45 = 3V5

