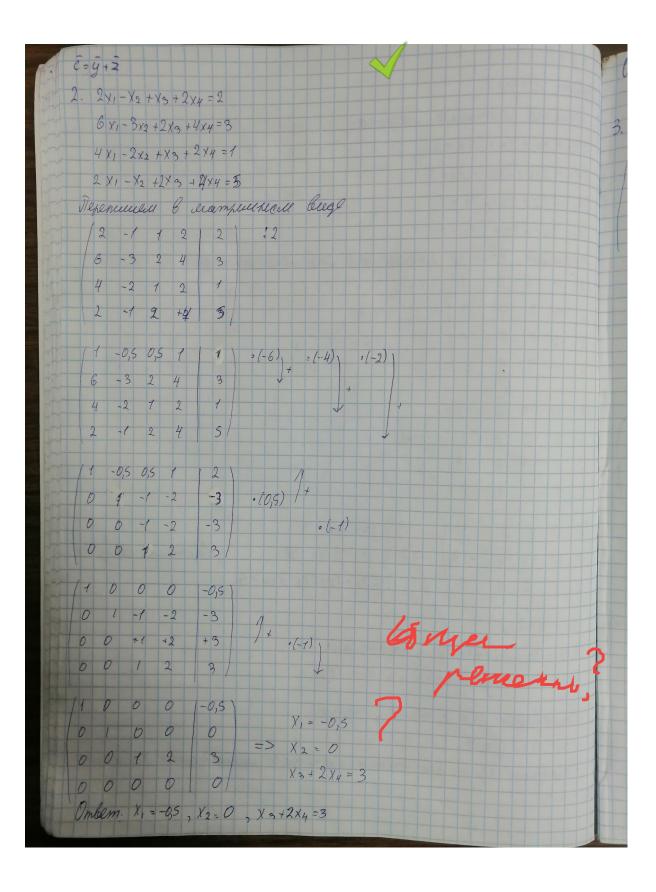
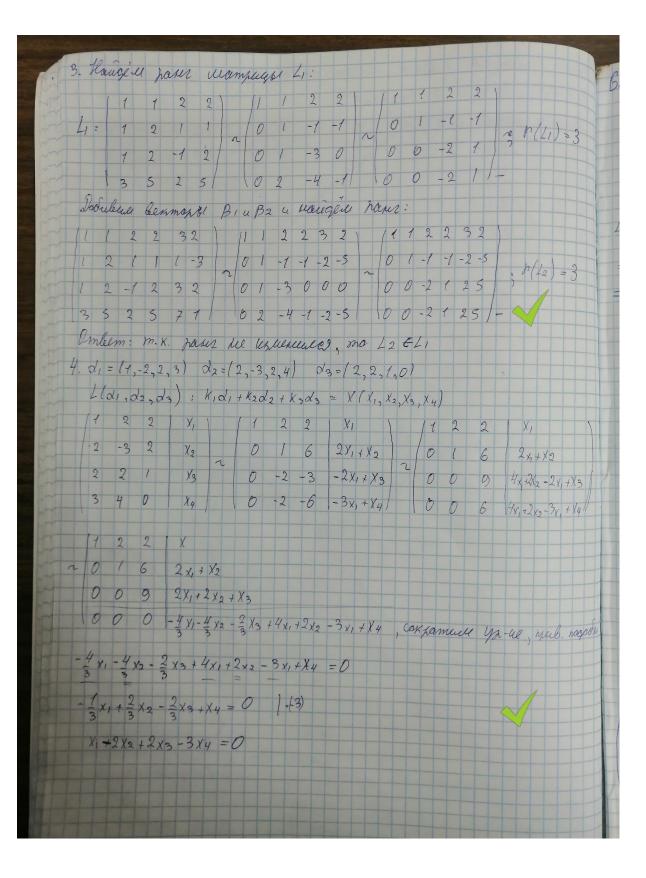
```
houmpollshear pacoma 1=2
                       trapeasem 10
1 X= (8,2,3) y= (4,6,10) z= (3,-2,1) c= (7,4,11)
 Виторы борожнот базия, если отрединенний, составлениями из коорди
worm mus beamyob, empurer on O.
     \begin{vmatrix} 8 & 2 & 3 \\ 4 & 6 & 10 \end{vmatrix} = \begin{vmatrix} 8 \cdot 6 \cdot 1 + 2 \cdot 10 \cdot 3 + 3 \cdot 4 \cdot 6 \cdot 2 - 3 \cdot 6 \cdot 3 - 8 \cdot 10 \cdot (-2) - 2 \cdot 4 \cdot 1 = \\ 4 & 6 & 10 \end{vmatrix} = \begin{vmatrix} 48 + 60 - 24 - 54 + 160 - 8 = 182 \\ 3 - 2 & 1 \end{vmatrix} = 48 + 60 - 24 - 54 + 160 - 8 = 182 
Than Kar SA +0, mo E money Jazeloncume no gasemoney Fazerey.
 ē = d1x + d2 y + d32
c = d1(8,2,3) +d2(4,6,10)+d3(3,-2,1)
(7,4,11) = (8d1,2d1,3d1) + (4d2,6d2,10d2) + (3d3,-2d3,d3)
(7,4,11) = (8d1+4d2+3d3; 2d1+6d2-2d3; 3d1+10d2+d3)
    18d1 +4d2 +3d3 = 7
 2d1+6d2-2d3=4, decembe deemograle tegallepa
   3d, +10d2 +d3=11
 A = \begin{bmatrix} 8 & 4 & 3 \\ 2 & 6 & -2 \end{bmatrix}, B^{T} = (7, 4, 11)
 3 10 1
 AA = 8.6.1 +4.(-2).3+3.2.10-3.6.3-8.(-2).10-4.2.1 = 48-24+60-54+160-3=132
      <del>|7 4 3|</del>
                       7.6.1+4.6-2).11+3.4.10-3.6.11-7.6-2)-10-4-4-1=42-88+
 DAI= 4 6 -2
                    + 120-108+140-16=0 ; d1=0=0
      11 10 1
       8 7 3 8.4.1 + 7.6.2).3+3.2-11-3.4.3-8.6.2).11-7.2.1 = 32-42+66-
 BA2= 2 4 -2
                    = -36+176-14 = 182 ; d2 = 182 = 1
       3 11 1
        8 4 7
                    8-6-11 + 4-4-3+7-2-10-7-6-3-8-4-10-4-2-11=528+48+140-
  DA3= 2 6 4
                       -126-320-33=182 3 d3=182=1
```





```
1 -4-5 9
DA = (4-1) | -4-1 0 +5 + 9 + 7 | 1 -4-1 =
= (4-x) (-4-x) /5-x) +5 (5-x+36) +7 (-16-4x) =
=-142-1215-112-281 =-80+161+512-13+205-51-112-281=
= -13+512-171+13
        -x^3 + 5x^2 - 17x + 13 = 0
       -13+12+412-410-131+13=0
       -\lambda^{2}(\lambda-1)+4\lambda(\lambda-1)-13(\lambda-1)=0 |.(-1)
      (X-1)(+X2+4X+13) = 0
  1-1=0 www 12-41x+13=0
                         D=16-4.13 = -36
  1=1
                         \lambda_1 = 4 + \sqrt{36} = 4 + (-6i) = 2 - 3i
                         12 = 4 - 1-36 = 4 - 1-61 = 2+31
Cos embleures 2 provenien: 1 = 1 12 = 2-31 13 - 2+31
 Resonabled It= 8 cermber yp-win
 4-1 -5 7 3 -5 7 1
1 -4-1 9 2 1 -5 9 plumes 9my coemboley
-4 0 5-1 -4 0 4
 0 -20 -40 => -20 x2 = -40 x3 X2 = 2x3
                    -4x_1 = -4x_3
                                     Y1 = X3
```

Maionceamles cooking. Cemmonal, omberiase electly 1, of , willem brig: (x3,2x3, x3) = x3(1,2,1), rge x3-lpool recceo, omerciaise om Procoeples ogless Cenman les mon lesegues bos: Y3 = (1,2,1) 7. 5 x<sup>2</sup> + 4 /6 × y + 7y<sup>2</sup> = 22 yp-ul unelem Bug an x2+2a12 xy +2a13 x + a22 y2+2a23 y + a33 = 0 , 23e an = 5; a12 = 216; a13 = 0; a22 = 7; a23 = 0; a33 = -22 Bouestell onjegettembelb  $D = 0_{12} \quad 0_{12} \quad | \quad 5 \quad 2\sqrt{6} \quad | \quad = 5 \cdot 7 - 2\sqrt{6} \cdot 2\sqrt{6} = 11 \quad \Delta \neq 0$ thousell yearny noriones recroir cuconellos asopqueren (a11 Yo + a12 yo + a13 = 0 { 5xo + 2/6 yo = 0 (a,2 xo + a,2 yo + a,23 = 0 = 2 2 16 xo + 7 yo = 0 , verms zaviemen. ame to =0 4 yo=6 Repetique x yp-uso & cumbile propalation 0'x'y' 5x'2 + 4 16 x'y' + 79'2 - 22 = 6 Talale notogen cumulila us you V  $\psi = -acot\left(\frac{\sqrt{6}}{12}\right)$ Sin(2V) = -216 cos(2V) = 1 $\sin(\varphi) = \sqrt{1 - \cos^2(\varphi)}$   $\cos(\varphi) = \sqrt{\cos(2\varphi)} + \frac{7}{2}$   $\sin(\varphi) = -\sqrt{6}$   $\cos(\varphi) = \sqrt{6}$   $\sin(\varphi) = \sqrt{6}$ Josephabuse 8: x' = x cos(q) - y sin(q) g'= x rin(4) + g ros(4)

