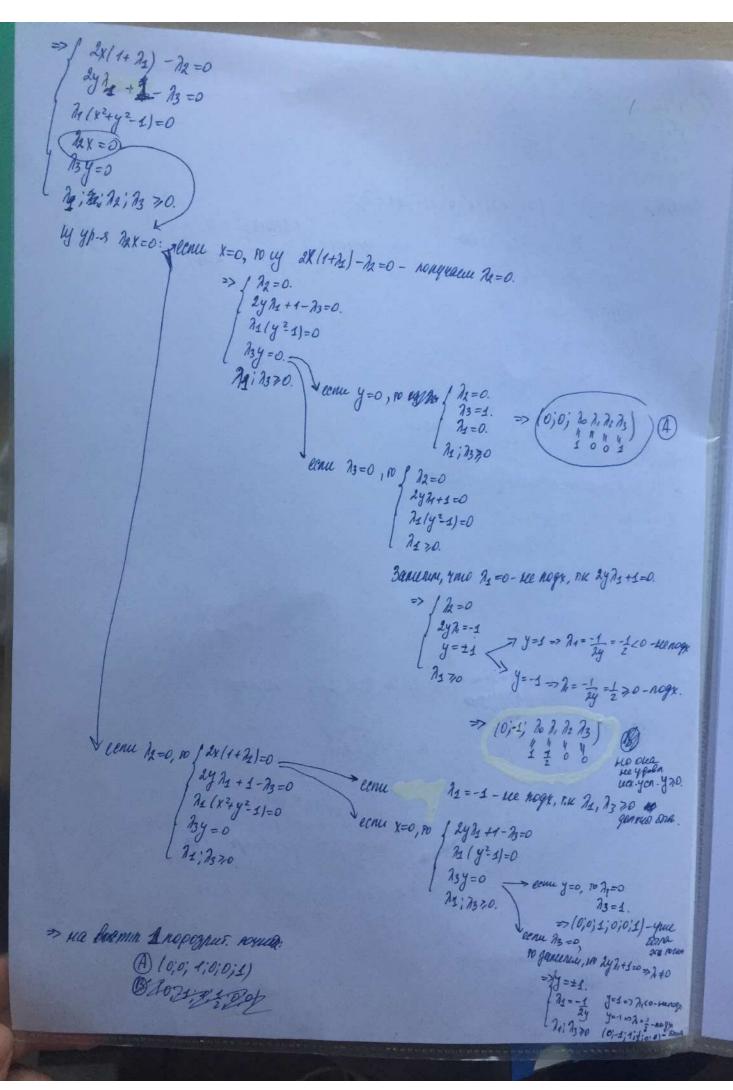
10.09. 20. Паропу. Уз от сенинара у D x2+y → extr x2+y2-150 -y ≤0. Demesies: 1.(x,y)= 20(x+y)+21(x+y=1)-2x-23y $\Lambda'_{x} = 2\chi \lambda_{0} + 2\chi \lambda_{1} - \lambda_{2}$ $\Lambda'_{y} = \lambda_{0} + 2\chi \lambda_{1} - \lambda_{2}$ $\Rightarrow uecuan = \begin{pmatrix} 2(\lambda_{0} + \lambda_{1}) & 0 \\ 0 & 2\lambda_{1} \end{pmatrix}$ 1 'y = 20 + 2421 - 73 => (2x(20+21)-22=0 2471 + 20-23 =0 71/x2+y2-1)=0 12X=0 U elye x2+y2-160 MAGANERANIANAGANAN Eence 20 = 0: 1 2x 21 - 22 =0 2471-73=0. A1(x2+y2-5)=0 14:02: 23 70. Ecuu 1/2 =0, of 0= 2=0 =>]=(20; 7; 2; 2)=0 - nenoge. Eenu $n_{+}\neq 0$, $n_{1} \times = \frac{n_{2}}{2n_{1}} \Rightarrow n_{2}^{2} + n_{3}^{2} = 4n_{1}^{2}$ (4) yp-3 x= 22) 2x x=0 -> cenu 2=0, 10 x=0 -> y=1 => y=1=> 23=0/4 yp. 3 234=0/. HO y = 31 = 0 => None. n3y =0. come \$2 +0, TO X=0. - LY 4p-3 Pax=0. $\begin{array}{ccc} \mu_0 & \chi = 2 & + 0 & \Rightarrow n \text{ forch}. \\ \chi & 2 & \chi & & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & & \\ \chi & 2 & \chi & & & & & \\ \chi & 2 & \chi & & & & & \\ \chi & 2 & \chi & & & & & \\ \chi & 2 & \chi & & & & & \\ \chi & 2 & \chi & & & \\ \chi & 2 & \chi & & \\ \chi & 2 &$ -> no +0. a) bygen weren Mununymor >> nonoque no = 1

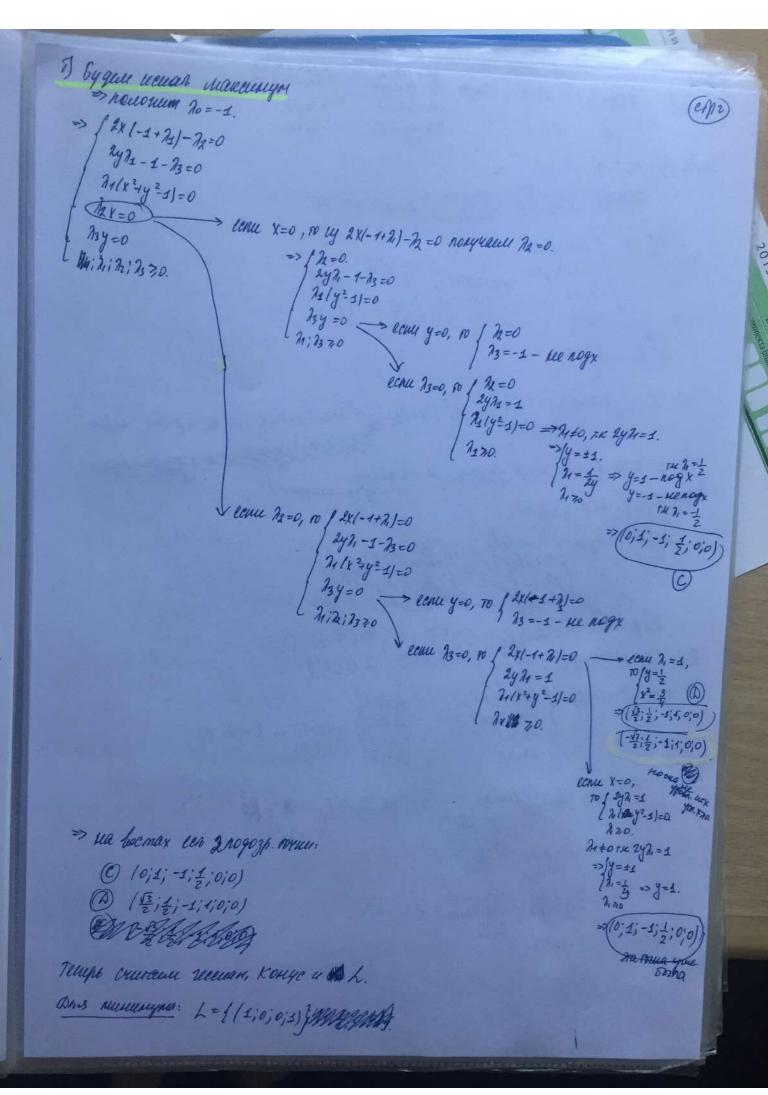
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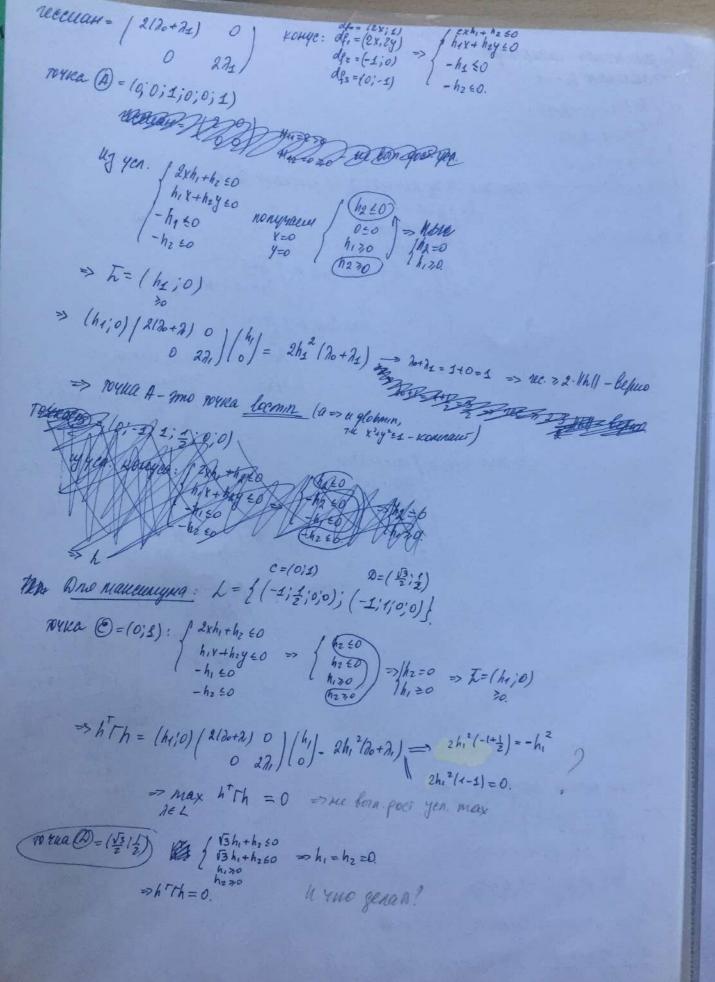


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(2) |2x^2 + 2x + 4y - 3z \rightarrow extr

|8x - 3y + 3z \le 40

|-2x + y - 2 = -3|
```

Percentage: $\Lambda(x,y,z) = \lambda_0(2x^2+2x+4y-3z) + \lambda_1(8x-3y+3z-40) + \lambda_2y + \lambda_3(-2x+y-2+3)$ $\Lambda'_{X} = \lambda_0(4x+2) + 8\lambda_1 - 2\lambda_3$ $\Lambda'_{Y} = 4\lambda_0 - 3\lambda_1 - \lambda_2 + \lambda_3 \qquad \Rightarrow \text{Recual} = \begin{pmatrix} 4\lambda_0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$ $\Lambda'_{Z} = -3\lambda_0 + 3\lambda_1 - \lambda_3$

=> \int 270(2x+s) +87, -273=0
\[
\begin{align*}
470-37,-72+73=0 \\
-370+37,-73=0 \\
71(3x-3y+32-y0)=0 \\
2y=0. \\
8x-3y+32\&\eq0 \\
y70
-2x+y-2=-3 \\
10;71\frac{1}{2}\frac{1}{2

Ecnu $\lambda_0 = 0$: $\int \frac{8}{1} \frac{1}{1} - 2\lambda_3 = 0$ $\begin{cases}
-3\lambda_1 - 3\lambda_2 + \lambda_3 = 0 \\
3\lambda_1 \frac{1}{8} \frac{1}{8} \times -3y + 32 - 40 = 0
\end{cases} - \frac{1}{1} - \frac{1}{8} \frac{1}{8} = 0$ $\begin{cases}
\lambda_1 = 0 \\
\lambda_2 = 0
\end{cases} - \frac{1}{1} \frac{1}{8} \frac{1}{8} - \frac{1}{1} \frac{1}{8} = 0
\end{cases} - \frac{1}{1} \frac{1}{8} = 0$ $\begin{cases}
\lambda_1 = 0 \\
-2x + y - 2 = -3
\end{cases} = 0$ $\begin{cases}
\lambda_2 = 0 \\
3x - 3y + 32 - 40 = 0
\end{cases} - \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} = 0$ $\begin{cases}
\lambda_1 = 0 \\
3x - 3y + 32 - 40 = 0
\end{cases} - \frac{1}{1} \frac{1}{1$

a) Memo 20 = 2 - The user numerymon.

```
исле
                Jeens 4=0.10: 1 2/2×+1+82 -273=0
Blet
                                4-3\lambda, -\lambda_2 + \lambda_3 = 0
-3+3\lambda, -\lambda_3 = 0 => \lambda_2 = 1
                                \lambda_{1} (8x+32-40)=0 \longrightarrow \text{lenu } \lambda_{1}=0, \text{ to } \int \mathcal{A}(2x+1)=2\lambda_{3}
                               1 -2x-2=-3
                                                                           14-12+13-01 172=4+73=1
                              8x+32-40 =0
                                                                           -3-73=0 => ln3=-3
                               Who
                                                                                                            => 2X+1=-3
                                                                           -2x=7+3=0 +
                             20; 21:1270.
                                                                           8x+32-40=0
                                                                                            => Z = -2x+3 = 4+3=7
                                                                           20:21:2270.
                                                                                           Мроверния, rmo 8x+32-4050:
                                                                                                                               pelle
                                                                                                 => 8x+37 = -16+25 = 40 - Bepus
                                                           leau 8x+32-40=0:
                                                                                        - (1-2;0;7;1;0;1;-3)
                                                             1 212x+1)+87+-273=0
                                                            \frac{4-3\lambda_{1}-\lambda_{2}+\lambda_{3}=0}{-3+3\lambda_{1}-\lambda_{3}=0} = \sum_{l=3+3\lambda_{1}-\lambda_{3}=0}^{l}
                                                             8x+32-40=0.
                                                            -2x-2+3=0. > -2-28=0 => 2=-28
                                                          Noin: 72 30.
                                                                               => 12(31+1)+82,-273=0
-3+32,-23=0
                                                                               -> 1 814-213+64=0
                                                                                 1 32, - 73 - 3 = 0.
                                                                                    271+70=0.
              => 1 по дориг. писа на вогит:
                                                                                      => 21 = -35 <0 - Me nogx.
                  (A) (-2;0;7;1;0;1;-3)
                                                                                                    T.K 2,30.
           Il luyeur locmax, re 20 = -1.
                                                                                                                               Eence
                >> 1-2(2x+1)+82,-223=0.
                 -4-32, -12+13=0 } => 2=-1- nponel, ox 2=0
                                                                                                                               Eenu
                  -> neet nopogpur. Forew na loemax.
            We chepywer voying A reply fort. you. receiver = 142000 /2001
                                                     => (4x+2)h_1+4h_2-3h_3 \leq 0
            KONYC = 1/4: 4:-3)
                              df2 = (8;-3;3)
                                                            8 h, -3h2 +3h3 =0.
                              df3 = (0;-1;0)
                                                             -2h,+hz-h3=0 => h3= -2h, +h2
                              dfy = (-2;1;-1)
```

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Chy)
=> T= (hi haj - 2h, +hz)
  >> hTh= (h, hz -2h,+hz) / 000 / hz = 4h,2 = 4.11hl > 20 beniax
(3) fax 2+ 2x+4y-32 ->extr
                                                  h3=-2h,+h2=-2h, => ||h||2=h,2+4h,2=5h,2
   8x-3y+32 = 40 =0
-y=0
-y=0
решение: Л (x, y, г) = 90(2x + 2x + 4y - 3 г) + 7, (8x-3y + 3 г-40) + 2 (-2x+y-2+3) Му
          D'x = 90/4x+2/ +87, -273
          Ny = 420 - 32 - 22 + 23
         1/2 = - 3/20 + 3/1, - /3
   > 1 270(2x+1)+87,-273=0
       4 \partial_0 - 3 \partial_1 - \partial_2 + \partial_3 = 0
-3 \partial_0 + 3 \partial_1 - \partial_3 = 0 \int - > \partial_2 = \partial_0
      2/184-34+32-401=0
     12 y = 0
    A31-2x+y-2+3/=0
    8x-3y+32-40€0
    -2x+y-2+3=0
    750.
20:21:20:20
  Eenu 20=0, 00 f 82,-223=0 => 42,=23 >>> 2,=0 => 2= (20 2, 22 23)=0-nnox0.
  Ecnu To = -1, or chapy nonywell 12 = 20 = -1 <0 - xee nogx
                 => no +-1 => armax - Met ropopul. roren.
  Ecru do = 1, re uyun loemin, so
          2(21+11+87,-273=0
           ne = 20 = 1
          -3+37,-73=0
       A18 4 484 +32-401-0 =
                                            > ecu 2 =0 ...
                                            Decny 8x+37-40=0...
      131-28-8-2+31=0
```

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Menu 2=0, 10: \ 2(2V+5)-223=0 MC -3-73=0=>73=-3<0- Leenogx. (1.11 20;71/2/33 >0) aB. Eene 8x+32-40=0: 12/2x+51+82,-223-0 $-3+3\lambda_1-\lambda_3=0.$ $A_3 \left(-2x - 2 + 3 \right) = 0$ $\rightarrow \ell\ell n + 3 = 0, \ n - 3 + 3 \lambda - 0 = 0 \Rightarrow \lambda = 1$. -2x-2+350 2,12320 => 2/2x+11+8-0=0 => 2x+1=-4 X=-5 => pag Bharse 1 10 2= 40-8x = 40.8x = 40.80 \$ 20

= 2x - 2x + 3 = 8. Ho = 2x - 2+350, re 2 3 - 243-1-697 = (1-5;0; 10;1;1;0) (A) ecul -2x-2+3=0: / 212x+11+87,-273=0 N= No=1. Eenu 2 -3+31,-73=0 -2x-2+3=0 8x+32-40=0. 6 $=>\int 2(34+1)+8\lambda_1-2\lambda_3=0$ $-3+3\lambda_1-\lambda_3=0$ 11: 7370. => 1 64+87, -273=0 16-62,+23=0 => 27,=-70 Mils 70 => 7 =-3500 ->> 1 negopour arua na loemin: me negy (A) (-5:0) (1:4:1:0) Mosephen ei c nomonyon goes yen: necenan = (400) 1 hTh = 4h,2 = 4.9. 11h = > Cenim => laemin Konye: df = 14x+2;4:-3) $\frac{df_{i} = (4x+2)f_{i} + 4f_{2} - 3f_{3} \leq 0}{df_{2} = (8i-3;3)} = \begin{cases}
1(4x+2)f_{i} + 4f_{2} - 3f_{3} \leq 0 & 8\tau. A: \\
8f_{i} - 3f_{2} + 3f_{3} \leq 0
\end{cases}$ $\frac{8f_{i} - 3f_{2} + 3f_{3} \leq 0}{f_{2} \neq 0} = \begin{cases}
h_{2} \neq 0 \\
h_{2} \neq 0
\end{cases}$ $\Rightarrow 1 - 8f_{i} - 3f_{3} \leq 0 \leq 0 \Rightarrow h_{2} = 0$ $\Rightarrow 1 - 8f_{i} - 3f_{3} \leq 0 \leq 0 \Rightarrow h_{2} = 0$ => 1-8h, -3h3 =0 (=> 8h++3h3=0 dfy=1-2/1/-1) -2h,+hz-h3 50 -2h1 -h3 60. \$\psi \text{h}_3 = \frac{-8h_1}{3} \\
-2h_1 -\psi -h_3 \in 0. \$\psi \text{lh}_1 = \frac{-3h_1}{3} \\
\psi \text{lh}_1 = \frac{1}{3} \\
\psi \text{lh}_2 = \frac{25h_1}{3} \\
\psi \text{lh}_1 = \frac{1}{3} \\
\psi \text{lh}_2 = \frac{25h_1}{3} \\
\psi \text{lh}_1 = \frac{1}{3} \\
\psi \text{lh}_2 = \frac{25h_1}{3} \\
\psi \text{lh}_2 = \frac{25h_1}{3} \\
\psi \text{lh}_3 = \frac{1}{3} \\
\psi \text{l

3x+

hyenus,

20:2:1

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4) 1 ×2-24 → extr
  3x+2y+2 = 6.
                                                                                  (chs)
Persence: A(k,y =) = 20 (x2-24) + 2 (2x-y-32-10) - 224 + 23 (3x+24+2-6)
        1 = 20 2 + 27, + 373
         \Lambda'_{y} = -2\lambda_0 - \lambda_1 - \lambda_2 + 2\lambda_3 => \Lambda = \frac{0000}{000}
        1 202+271+373=0
       -270-29-22+273=0
       x20 -3/2 + 73 =0
      21/21-4-32-10/-0
     Azy=0
    420
  3x+2y+2=6
Eense 20=0: / 22,+323=0.
             -71-72+273=0
                              >> 1=0=>13=0 => 4-7,-12+273=0-nony Each 12=0
            -32,+23=0
                                           => 7 = (10; 2; 2; 23) = 0 - Tak MENERS
hyenus 20=1 - TE MYCH MURANYMOT
    1 2+ 27, +373=0
     -2-11-12+273=0
    X-37, +73 =0
    11/24-4-32-10/=0
                    > eenu y=0: | 2+22 +323=0
  3x+2y+2-6=0
                                   -2-7,-72+273=0
                                    X-37,+13=0
 20:21 7270
                                   11/24-32-10/=0
                                                     > lenu /2 =0, 00
                                 3x+14+2-6=0
                                                         1 7+373=0 => Z=373
                                  no: 21: 1270
                                                          -12+273-2=0
                                                          X+73=0 => X=-73
                                                         3x+2-6=0 =>-373-373-6=0
                                                        20:21270.
                                                                       => 73=-1.
                                                                  => 12 = 273-2 = -4(0
                                                   eenu 24-32-10=0,
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2+21,+373=0 => 2=-27,+373 cite 71-12+273-2=0 Mel $X-37,+73=0 \Rightarrow X=37,-73$ $3x+2-6=0 \Rightarrow 3(3\lambda_1-\lambda_3)-2\lambda_1-3\lambda_3-6=0.$ 20: 21: 72 70 $2x-3z-10=0. \Rightarrow 2(3\lambda_1-\lambda_3)+3(2\lambda_1+3\lambda_3)-10=0$ => 172,-623-6=0 17 1224+723-10=0 16 => (49+72)7,-60-426=0. 12171 = 102 $= 7\eta_1 = \frac{102}{121}$ => 23 = 49 721-6 = 7.102-121.6 HR-1 => 2 = - 2, +273-2 = $= \frac{-102}{121} - \frac{4}{121} - \frac{242}{121} = \frac{-348}{121} < 0.$ => HE ROGX Veenu 12=0:/2+27,+373=0 1-2,+273-2=0 X-37, +73 =0 21/28-4-32-10/-0) \rightarrow lenu $\lambda_{1}=0$, to $\begin{cases} 2=-3\lambda_{3} \\ \lambda_{3}=1 \end{cases} \Rightarrow 2=-3$ 3x + 24+ 2-6=0 3x+2y+2-6=0 => -3+2y+3-6=0 2012/1/220 Minghours =6(-1;3;-3;1;0;0;1) l ecnu 2x-y-32-10=0, TO 1 2+22,+32=0 => 2=-22,-323 -7,+273-2=0 X-32,+13=0 => X=32,-23 2x-y-37-10=0 } => MXXXXX 3x+2y+2-6=0 } => 7x-57-26=0 9 70 70: 71 72 70

7-6

>> NIM

of hyenus

1-

71/2

```
>> 71-22,-373)-5(32,-73)-26=0.
                                                                                                      CP16
    7-6/-29/2 -16/3-26=0.
       1 - 21 + 273 - 2 = 0. 18 => - 3921 - 42=0.
  >> nenoro 1 nogozpur. rouca ua lacemin:
                                              => \eta_1 = -\frac{42}{32} < 0 - we nogx.
               A= (-1:3;-3;1;0;0;1)
of hyens 20=1, we myen loemax
   => 1-2+21,+313=0
         2-71-72+273=0
       -x-32, +73=0
      2,12x-y-32-10/=0
    1 + 39 + 2-6=0.
                            >cenu y=0: \ -2+22+323=0
    21/2 70.
                                           -\lambda_1 - \lambda_2 + 2\lambda_3 + 2 = 0
                                          -x-3\lambda_1+\lambda_3=0
                                         An 12x-32-10/=0)
                                                               > eenu 2 =0, 20
                                                                       1 2= 373
                                        3x+2-6=0
                                                                        -72+273+2=0
                                                                        x = 3
                                                                      2+12270.
                                                                     3x+2-6=0. => 313+373=6.
                                                                                   => 73=1.
                                                                                  -> 72=273+2=4
                                                                         =>(1;0;3;-1;0;4;1) B
                                                    eenu 2x-32-10=0.
                                                    - 2+22, +323=0 => 2=22, +323
                                                    -1,-12+273+2=0
                                                   -x-37,+73=0 => x=37,+73
                                                   2x-32-10=0. 3x+2-6=0 3=5 \begin{cases} 2(-3\lambda_1+3\lambda_3)-3(2\lambda_1+3\lambda_3)-10=0\\ 3(-3\lambda_1+\lambda_3)+2\lambda_1+3\lambda_3-6=0. \end{cases}
                                                  27: 1270.
                                                                 1-122, -723-10=016
-72, +623-6=017
                                                                     => -(72+49) 1, -60-42=0.
                                                                          => 1= -102 co-Kenogx.
```

1.6

= -12

Jeens 12=0: 1-2+27, +373=0 - 11 +273+2=0 -Y - 32 + 13 = 0B 1044 ar 12x-y-32-10/=0) 8x+2y+2-6=0 > lenu 7,=0, 10 / 2=373 3 = -1 = 121/230 $3x + 2y + 2 - 6 = 0. \Rightarrow 2y = -3x - 2 + 6 = 3 + 3 + 6$ B 104 = \(-3; 6; -3; -1; 0; 0; -1 \) lenu 2x-y-32-10=0, TO 1-2+27,+373=0 => 2=27,+373 -27, +273 +2=0 B rue $-Y-3\lambda_1+\lambda_3=0$ => $Y=-3\lambda_1+\lambda_3$ 24-4-32-10=0 3x+2y+2-6=0 } = AMBRADY. 7x-52-26=0. y 20 212270. => 7/-3/1+/3)-5/-3/1+/3)-26-0. 1-62, +273-26=0 => 2 rorku nogozp. ua bemax: 1-27, +273 +2=0. (3) (1:0;3;-1; 0;4:1) => 47, +28=0. O 1-16; -3;-1; 0;0;-1) => 7, <0 - Me nogx. Темерь проверим их по дост. усл. жев. Konge: df= (2:-2;8) $df_{2} = \{2; -1; -3\}$ $df_{3} = \{0; -3; 0\}$ $df_{4} = \{3; 2; 1\}$ $3h_{1} + 2h_{2} + h_{3} = 0 \Rightarrow h_{3} = -3h_{1} - 2h_{2}$ >> h Th = (h, hz -3h, -2hz) (0 0 20) (hi 20 00) (-3h, -2hz) = (201-3h, -2hz), 0; 20hi) (hz -3h, -2hz) Ecnu 20=1: = - 270 hs (3h, +2hz)

Bronce (= (-1;3;-3;1;0;0;1) 1 (-3h,-2h2-h3 60) (CM7) $\begin{pmatrix}
2h_1 & -h_2 - 3h_3 \leq 0 \\
h_1 & 20 \\
h_3 = -3h_1 - 2h_2
\end{pmatrix}$ $\begin{pmatrix}
2h_1 & -h_2 - 3h_3 \leq 0 \\
h_1 & 20 \\
h_3 = -3h_1 - 2h_2
\end{pmatrix}$ => 2h,-h2+9h,+6h2 =0. hTTh = 2h1 (3h, +2h2) U 2010? B rouce (3) = (1:0:3:-1:0:4:1) $\begin{cases} 3h_1 - 2h_2 + h_3 \leq 0 \\ 2h_1 - h_2 - 3h_3 \leq 0 \end{cases} \Rightarrow 3h_1 - 2h_2 - 3h_1 - 2h_2 \leq 0 \Rightarrow h_2 \geq 0.$ $\begin{cases} h_1 \neq 0 \\ h_3 = -3h_1 - 2h_2 \end{cases}$ 11h, +5h2 60. hth = 2h1 /3h, +2h2) 11 7mo? B range $(C) = [-1, 6, -3, -1, 0, 0, -1] \Rightarrow [-3h, -2h_2 - h_3 \le 0] \Rightarrow [-3h, -2h_2 + 5h, +2h_2 \le 0]$ $\begin{array}{c} 2h, -h_2 - 3h_3 \le 0 \\ h_1 = 0 \\ h_3 = -3h, -2h_2 \end{array}$ $\begin{array}{c} 1 + h_1 + 5h_2 \le 0 \\ 3 \ge 0 \\ h_3 = -3h, -2h_2 \end{array}$ h Th = 2h, (3h, +2h2) 11 mo? Punence: 1(x1... xn) = 20(x12... + xn2/+2/x12. + x42-1) $1 \frac{1}{20} \times (1 + 12) \times (1 + 12$ $\begin{cases} \begin{array}{c} 3 \\ \lambda_{1}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{2}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{1}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{2}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{3}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^{2} + ... + x_{n}^{2} - 1) = 0 \\ \\ \lambda_{4}(x_{1}^$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$ $\begin{cases} \sum_{i=1}^{n} x_{i}^{i} \leq 1 \\ \sum_{i=1}^{n} x_{i}^{i} \leq 1 \end{cases}$

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правлени 2, \$0 1 kg 27, x; +1=0) >/ 1/4 -- + 1/4 4-5=0 1 27, ki2+1=0 => ki2=-1 => Ki = 1/47,2 => $\frac{h}{4\lambda_1^2}$ =1 => $h=4\lambda_1^2$ => $\lambda_1=\pm \frac{\sqrt{h}}{2}$ => $\lambda_1=\frac{\sqrt{h}}{2}$, $\tau \times \lambda_1 \geq 0$. Serve ho = -1, $ho f = x_i + 2\lambda_i x_i^2 = 0$ (5) $-x_i(1 - 2\lambda_i x_i^2) = 0$. $\rightarrow eene x_i = 0$, $ho \lambda_i = 0$. = (10...0)-1;0(8) Heteropore YT=0, a octaneuse = ± th >> Xi = 1 => 1. => (+1 ... + fm 10... 0) (5) $\Rightarrow \lambda = \pm \frac{\sqrt{n}}{2} \Rightarrow \lambda = \frac{\sqrt{n}}{2} > 0$ => /: = 1 = 1.2 = 1 2/1 = 1/2 = 1/2 => K: = ± 1 >> 3 nopojpur rozum na lamar. (B) = (0;0...0;-1:0) > (±1 ··· ±1 ; -1; [n] (c) Писшан: $T = \left(\frac{270 + 127 \cdot 14^2}{\sqrt{n}} \right)^{\frac{1}{\sqrt{n}}} = \left(\frac{\pm 1}{\sqrt{n}} + \frac{1}{\sqrt{n}} \right)^{\frac{1}{\sqrt{n}}} = \left(\frac{\pm 1}{\sqrt{n}} + \frac{1}{\sqrt{n}} \right)^{\frac{1}{\sqrt{n}}} = \frac{1}{\sqrt{n}}$ 0 $270 + 127 \cdot 1$ 2> hth= (220+122, x,2)h,2+...+(220+122, x,2)h,2 = 220(h,4...+h,2)+122/x,2,3...+h,2 Kouye: $df_1 = 2(x_1...x_h)$ => $\begin{cases} x_1 h_1 + ... + x_h h_h \le 0 \\ x_1^3 h_1 + ... + x_h^3 h_h \le 0. \end{cases}$ B rouse (A): hth = 276 1/h112 >> c.1/h112 => ga, 200 lacmin B write (B): hTh = -2 1/h1/2 \$ c. 1/h1/2 => Her, 200 re beaun Orber: 10 .- 01-6

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Brue(0: hTh = -2 || h || 2 + 12. In +1. || h || 2 = 4 || h || 2 > C || h || 2 => Into locax.

Brue(0): hTh = c.(hirathis) >0, mage c || h || 2 >> regan.

bet: 10.00