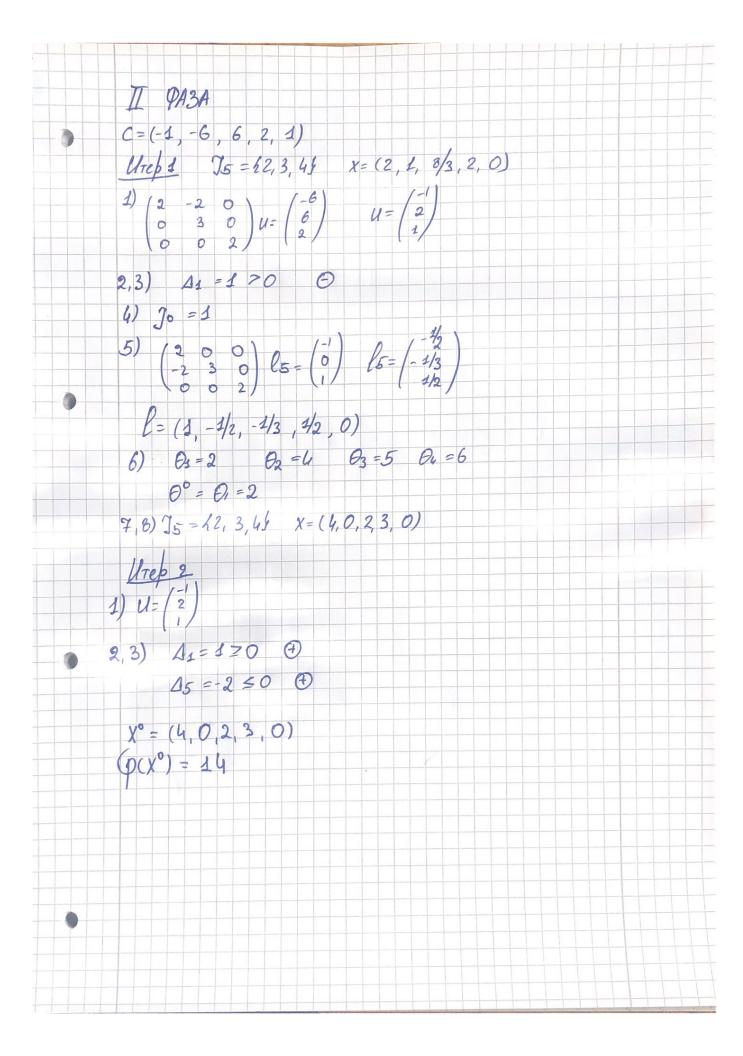
```
Uepenemumo 8 826
      Masoparopus N2
      Q(X) = -X, -6X2 +6X3 +2X4 +X5 → max
         X_1 + 2X_2 = 4  2 \le X_1 \le 4
-2X_2 + 3X_3 = 6  -1 \le X_2 \le 3
                                                      2 = X6 = 5
                                                        0 5 85 5 4
     -x_1+2x_1+3x_5=2  1 \le x_3 \le 4
     1 I PAZA
     Y = (2, -1, 1, 2, 0) W = \begin{pmatrix} 4 \\ 1 \end{pmatrix}
     f(x) = - 1/8 - 1/7 - 1/8 -> max 0 \le 1/6 \le 4 0 \le 1/7 \le 1 0 \le 1/8 \le 0
     A=\begin{pmatrix} 2 & 0 & 0 & 0 & 1 & 0 & 0 \\ A=\begin{pmatrix} 0 & -2 & 3 & 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & 2 & 3 & 0 & 0 & 1 \end{pmatrix} \quad C=(0,0,0,0,0,0,-1,-1,-1) \\ -1 & 0 & 0 & 2 & 3 & 0 & 0 & 1 \end{pmatrix}
     Urep. 1 Jo=16, 7,84 X=(2,-1,1,2,0,4,1,0)
     1) E U=C5 U= C6 U=(=1)
     2,3) 1=0 0
        12=0 O
          13=3 >0 0
    U)70=3
    5) l=(0,0,1,0,0,0,-3,0)
     E lo = (-3)
    6) \theta_3 = 3 \theta_6 = \infty \theta_8 = \infty \theta_7 = \frac{4}{3} \theta^0 = \theta_7 = \frac{4}{3}
    Итерация 2
1) \begin{pmatrix} 0 & 3 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix} u = \begin{pmatrix} -1 \\ 0 \\ -1 \end{pmatrix}
 2,3) 4=0 0
       D = 2 >0 0
```

```
4) 70 = 2
 5) l= (0, 1, 2/3, 0, 0, -2, 0, 0)

\begin{pmatrix}
0 & 1 & 0 \\
3 & 0 & 0
\end{pmatrix}
\begin{pmatrix}
-2 \\
5 = -2 \\
0
\end{pmatrix}

 6) b2=4 B3=4 B6=2 B3=00
7,3) J_5 = 12,3,39 x = (2,1,3/3,2,0,0,0,0)
 Ungh3
 2,3) 1=1=0
6) P8 = 0
7,8) J_5 = \{2, 3, 4\} X = \{2, 1, 3/3, 2, 0, 0, 0, 0\}
 Итер 4
1) U = (0)
              (
2,3) 1=0
               (
     18=0
    16,7,8 =0
               (F)
```



```
2) Νο στρούσε ο βού επθενιμό σαρανή, απε ο βού επθενιμού:

πρου βοπεινεύ ο βού επθενιμού ο δαριεικό ο οποίω ο βού επθενιμού.

Νο βεινειιμο πρεινού μαραν που βουσε οποίω ο βού επθενικώ
  Post obennae gagora: \lambda(y, w, \sigma)
f(\lambda) = b'y + d^2w - d', \sigma \Rightarrow min
A'y + w - \sigma = c
w = c
    Mhoy bon gbox est may

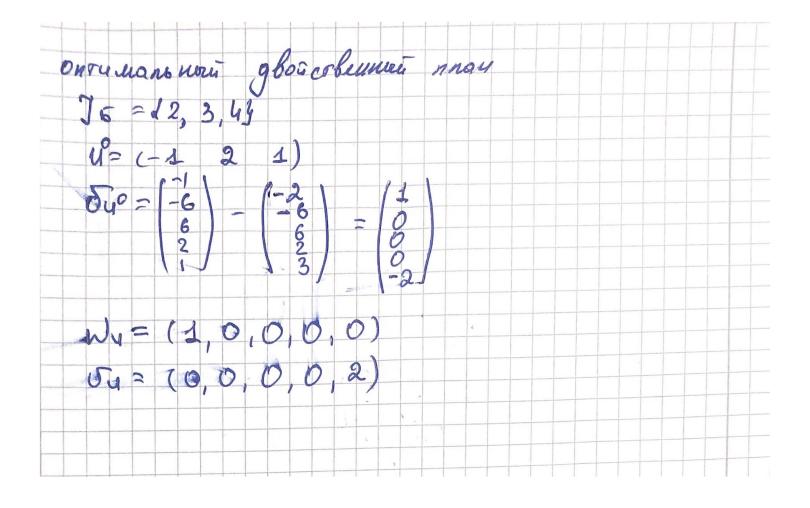
y = (0, 0, 0)

\delta y = c - A'y = c = (-1, -6, 6, 2, 1)

\delta y = (0, 0, 6, 2, 1)

\delta y = (1, 6, 0, 0, 0)

\delta y = (1, 6, 0, 0, 0)
                   \begin{pmatrix} 1 & 0 & -1 \\ 2 & -2 & 0 \\ 0 & 3 & 0 \end{pmatrix} u = \begin{pmatrix} -1 \\ -6 \end{pmatrix} u = \begin{pmatrix} 2 \\ 2 \\ 0 \end{pmatrix}
                                                                                                                       W_u = (0, 0, 0, 2, 1)
U_u = (0, 0, 0, 0, 0)
   S_{\mathbf{q}} = \begin{pmatrix} -1 \\ -6 \\ 6 \\ 2 \end{pmatrix} - \begin{pmatrix} -1 \\ -6 \\ 6 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \\ 2 \end{pmatrix}
```



```
3) Решить двойственным симплем -методом
Urd J5 = 21,2,35
1) U= (-1,2,0)
   2) Dy = Cy - Uy ay = 2-0=2
     D5=C5-Uas=1-0=1
    3) dey = 5 des = 4
91 60=05=3/3
   U=U+60 Py =(-1,2,1/3)
  UT 2
    2) Sz = C1 - U O1 = 4/3
     Dy = C4 - 4 a4 = 43
    3) 86 = 4 264 = 5
    6-Anden = (4)-(10)(4)=(0)
   (2 0 0) des = (0)
```