```
23 # 10
1 24 + xc - x3 + x4 - 2x5 = -11
II + 2x2 - x4 - 215 = -58
9 x2 +283 -3x4+25=-62
-X + -5x2 -5x3 +9x4 =229
L II -323 +4x4 -3x5=51
11 1-1 1-2-41
        1 -2 -58 0 1 1 -2
          1 -62 ~
        9 6 229
                      -4 -6 10
           -3 51
                    0
                                -1 62
              1361
              -47
              -15
                       0
                          0
              30
                       0
                                0
                                   0
                                      0
   0-11-1
              15
                                   0
                                      0
                             0
              => x4=x5=0 1 A3=-151, x1=-321, x1=6
```

```
jagarca # 2
14-x2 +2x3 -2x4+4x5 =-1
 r1 - 2x4 + 5x5 = -12
1-2x1 + 213 + 3x4 - 8x5 = 21
121 + 3c1 - 3x3 - 3x4 + 3x5 = -32
1-102 + 20ca - 25 = 11
11-12-24 -1
100-25-12 01-1019
 2 1 -3 -3 9 -32
                   0 3 -7 +1 1 -36
0-120-111 0-120-111
100-25/-12/ 1200-25/-12
 01-201-11
                        0 1 0 -2 5 -17
001-12-3
                         000000
 00-11-123
                         000000
000000
\begin{cases} x_1 - 2x_4 + 5x_5 = -12 \\ 0 \\ x_4 = P, \\ 0 \\ x_5 = Pz \\ x_3 - x_4 + 2x_5 = -3 \end{cases} = Z_2 \begin{bmatrix} -14, -22, -5, 0, 1 \end{bmatrix}
Z_3 \begin{bmatrix} -15, -2, 1, 0 \end{bmatrix}
Z_3 \begin{bmatrix} -15, -20, -4, 1, 1 \end{bmatrix}
 25[-12,-17,3,0,0] 24[-19,-13,-6,-1,1]
```

3agara # 3 (x1 + x2 - x3 - x4 + x5 = -46 1 - K, + K3 = 26 d-x1 +2+3 - +4 - +5 = 33 1 x1 - 3xg +2x4 +2x5 =-40 (-2x1-x1+6x3-3x4-5x5=100 -10100 26 -1 0 -2 -1 -1 53 1 0 -3 2 2 -40 1-9-1 6-3-5 100 0 0 0 0 000 7,[-26,-27,0,-4,0] 12+215=-24 => ZI - 16,-13,0,-8,1] 73[-46,-25,0,-6,-1] Zy [-26, -31, 0, -3,2] Z5[-26,-23,0,-5,2]

Bagara # 9 - 20, +27, +5x3 +3x4-10x5=0 1-20c2-0c3 + 30c4 + 3 x5=0 $2x_1 - 3x_2 - 10x_3 - 8x_4 + 16x_5 = 0$ 1 - 2 - 4 - 2 9 | 1 | 1 - 2 - 4 - 2 3-1 3 5 6 -14 0 0 1 1 -1 -5 -1 2 5 3 -10 0 0 1 1 -1 0 -2 -1 3 3 0 0 0 0 0 2 -3 -10 -8 16 $\begin{cases}
x_1 - 2x_1 - 4x_3 - 2c_1 + 3c_2 = 0 \\
x_1 + 3c_2 - 2c_1 + 3c_2 = 0
\end{cases}$ $\begin{cases}
x_1 - 2x_1 - 4x_3 - 2c_1 + 3c_2 = 0 \\
x_2 + 3c_1 - 2c_1 + 3c_2
\end{cases}$ $\begin{cases}
x_1 - 2x_1 - 4x_3 - 2c_1 + 3c_2 = 0 \\
x_2 - 3c_1 + 3c_2
\end{cases}$ x3 = -101 + 102 x4=16, toc2 15=00,+102

Bagara # 5 x, =[-3,-4,-1,-2,1] x2=[-2,-6, 1, -3,0]T X3 = [-5, 1, -6, 1, 2] x4 = [- 5,0,-4,-2,5]T *5 = x1-x2+x3 = [-6, 3, -8, 2, 3] X6 = x, -x2+x4 = [-6, 2, -6, -1,6] xz=x,-x3+x4-1-3,-5, 1,-5,4]T *8= X2- X3+ X4 = I-2,-4,3,-6,3]+

b11... 65-7 1 x1 - 2x2 + 3x3 - x4+ 8x5= 61 - 1 + 3x2 - 4x3 - 3x5=62 1-34 +711-9x3 + 14-8x5=B3 x1- 2x2 +3x3 - x4+2x5=64 L8x1-19 x2+25x3 - 3x4+21x5=B5 1 0 1 -3 0 18, - 63+36 11-23-12 | 8, 0 1 0 -2 -2 36,+63 0 0 1 -1 -1 26rt6s-62 3 7 -9 1 -8 Bg 0 0 0 0 64-64 1-2 3-1 2 64 0 0 0 bs-biteloth 18 -13 25 -3 21 85 1 B5-62+2B5+62=0 => g B4=0 B5=-7 B3=1 BE = 0 84=0 B5=-1 83=0 B1 = 0 B2 = L 63=0 64=1 B5=1 6,=1 6,=0