$A = \begin{pmatrix} a_{11} & q_{12} & q_{13} & q_{14} \\ q_{21} & q_{22} & q_{23} & q_{24} \\ q_{31} & q_{32} & q_{33} & q_{34} \\ q_{41} & q_{42} & q_{43} & q_{44} \end{pmatrix} \begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \\ \chi_4 \end{pmatrix} = \begin{pmatrix} b_1 \\ b_2 \\ b_3 \\ b_4 \end{pmatrix}$ A = B $M = \begin{pmatrix} 9_{11} & 9_{12} & 9_{13} & 9_{14} & b_1 \\ 9_{21} & 9_{22} & 9_{23} & 9_{24} & b_2 \\ 9_{31} & 9_{32} & 7_{33} & 9_{34} & b_3 \\ 9_{41} & 9_{42} & 9_{43} & 9_{44} & b_4 \end{pmatrix}$ To elinimente Az, rowz with r2-921/91,471, we replace M2, i with M2, i - 921/9, ter 15155 [i=6/4mns). One division to conquete 921. I mustiplication l'element to calculate 921/9/17 Mi, i and one. Subtraction perferment to calculate (M2, i - 921 x In total: I division, 5 multiplications and 5 Subtractions (additions). Since M2,1 will be 0 without knowing to calculate et i.e. (M21-921x M. Thus, I division, 4 multiplications and 4 additions. Eliminating A31 and A41 also require same operations. So total operations to eliminate Mil que 3 divisions, 12 multiplications and 12 Subpactions (additions). Total: (3+2+1) + (12+6+2) + (12+6+2)

Similarly | Q22 x2 + 923 x3 + 924 xy = b2

Multiplication, 2 subparties, 1 division

Total: (3+2+1) + (12+6+2) + (12+6+2)

Rept row q33 x3 + 934 xy = b3

Mexit row q33 x3 + 934 xy = b3

I multiplication, 1 subparties

I multiplication, 1 subparties

3 multiplicution, 3 subtractor, 1 drisien

-> 1 multiplication, 1 subpaction

1 division