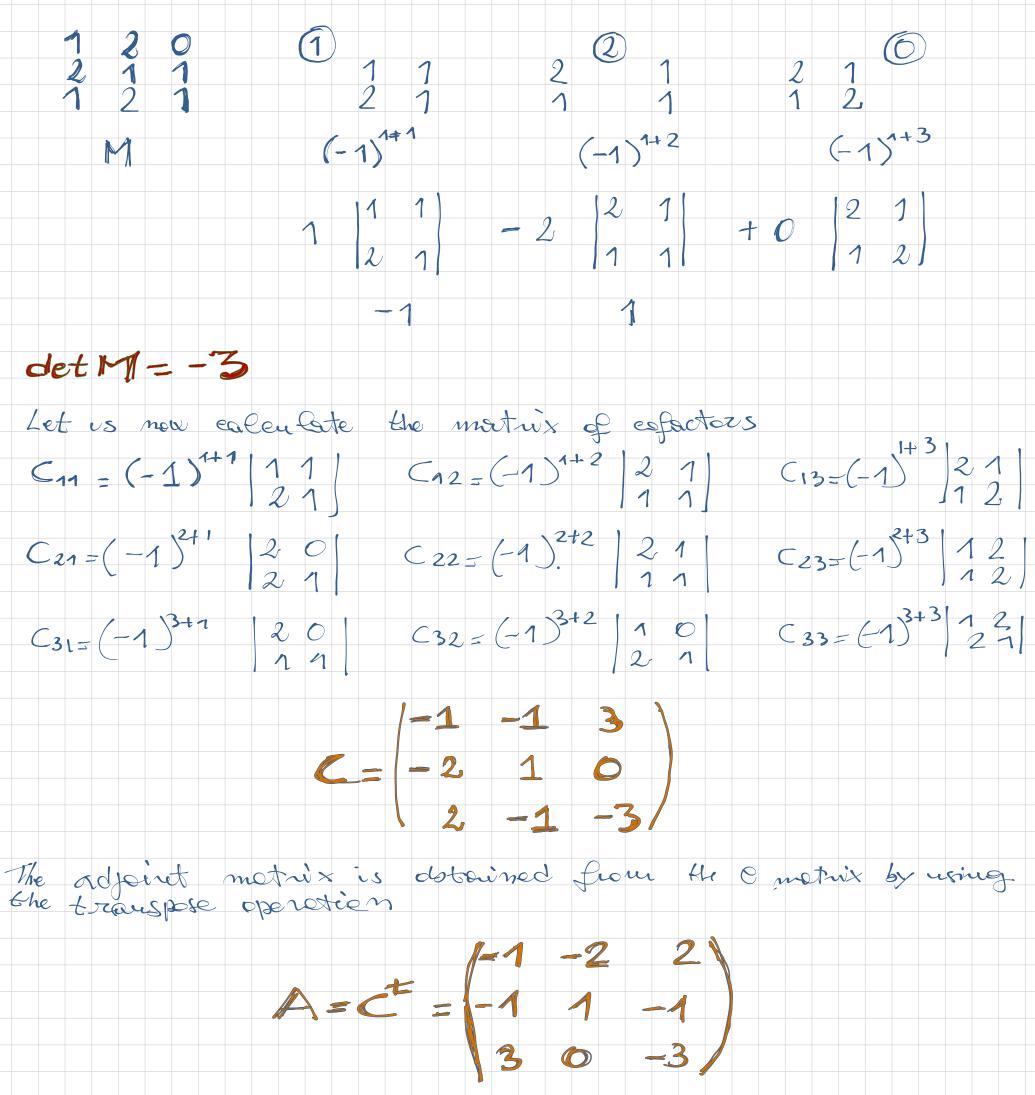
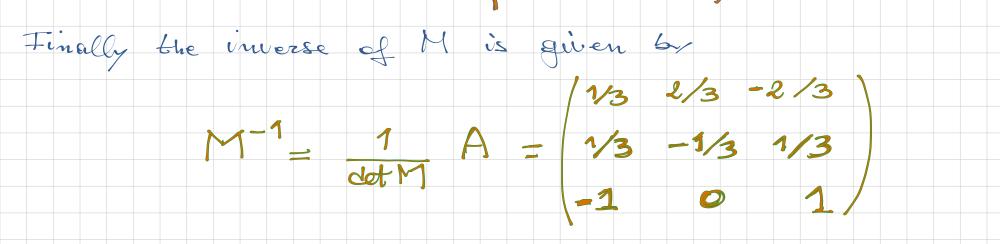
Determinant Cofactors Granspose Adjoint Inverse

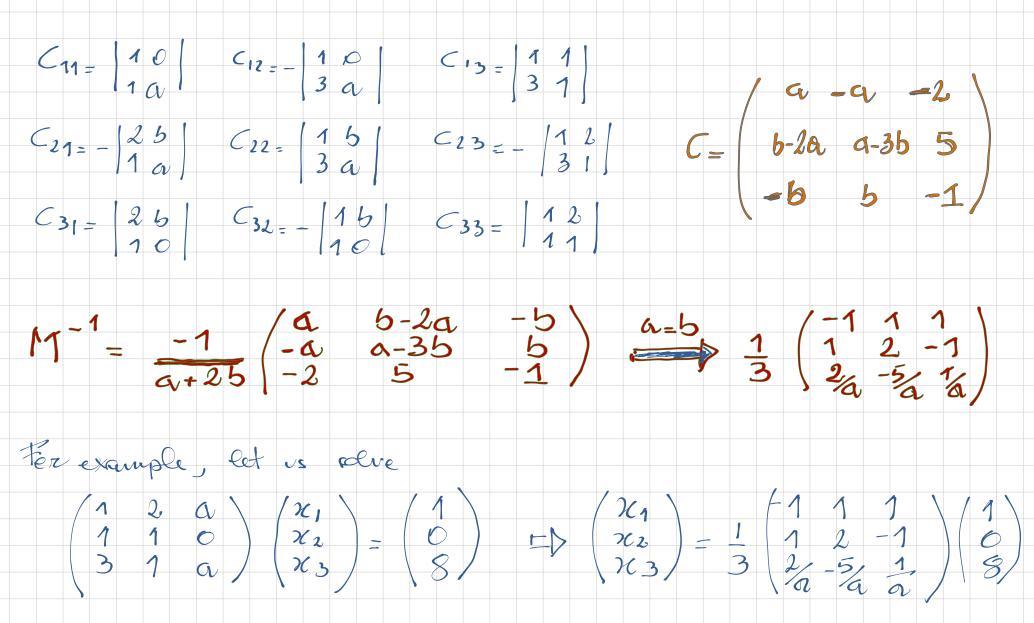


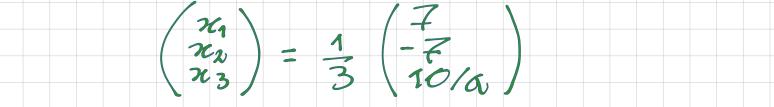


Let is now consider the morting

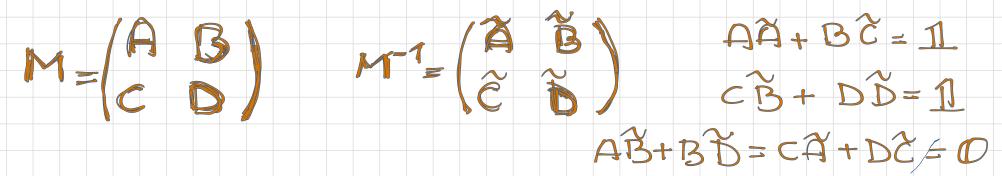
 $M = \begin{pmatrix} 1 & 2 & 5 \\ 1 & 1 & 0 \\ 3 & 1 & a \end{pmatrix} \quad det M = 1 \cdot \begin{pmatrix} 1 & 0 \\ -2 & | & 1 & 0 \\ -2 & | & 3 & a \\ -2 & |$

= a - 2a - 2b = -(a + 2b)det M = _ Ca + 25 >





For 4x4 matrices we use the decomposition in blocks of 2x2 matrices



From ABtBB=CA+DE=O we get

$\tilde{B} = -\tilde{A}B\tilde{D}$ $\tilde{B} = -B^{\dagger}A\tilde{B}$ $\tilde{A} = -C^{\dagger}D\tilde{c}$ $\tilde{c} = -D^{\dagger}c\tilde{A}$

For AT+BE=CB+DD=I we obtain

AA - BD'CA = -AC'DC + BC = 1

 $C\tilde{B} - DB^{-1}A\tilde{B} = -CA^{-1}B\tilde{D} + D\tilde{B} = 1$

