Cofactors The minor Mij multiplied by C-1) 1+1 i's called the cofactor of the element and we denote it by Aij or Cij. The Cofactor of $a_{11} = A_{11} = (-1)^{1+1} M_{11} = \begin{vmatrix} c_{22} & c_{23} \\ c_{32} & c_{33} \end{vmatrix}$ The cofuter of $a_{12} = A_{12} = C-1)^{1+2}M_{12} = -\begin{vmatrix} a_{21} & a_{23} \\ a_{31} & a_{33} \end{vmatrix}$

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