

Co-factor of an Element

- Let Δ be a determinant

$$\Delta = \begin{vmatrix} a & b \\ c & d \end{vmatrix}$$

Co – factor, of an element a_{ij} , denoted by C_{ij} is defined as

$$C_{ij} = (-1)^{i+j} M_{ij}$$

$$C_{11} = M_{11} = d$$

$$C_{12} = -M_{12} = -c$$

$$C_{21} = -M_{21} = -b$$

$$C_{22} = M_{22} = a$$