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$$\sigma \tau \llbracket 1, n \rrbracket \varepsilon (\sigma \tau) = \varepsilon(\sigma) \varepsilon(\tau) \varepsilon \mathcal{S}_n(\{-1, 1\}, >$$

$$\sigma\tau[\![1,n]\!]\varepsilon(\sigma\tau)=\varepsilon(\sigma)\varepsilon(\tau)\varepsilon\mathcal{S}_n(\{-1,1\},\times)$$

$$\tau \llbracket 1, n \rrbracket \varepsilon(\sigma \tau) = \varepsilon(\sigma) \varepsilon(\tau) \varepsilon S_n(\{-1, 1\}, \times)$$

$$\tau[1, n]\varepsilon(\sigma\tau) = \varepsilon(\sigma)\varepsilon(\tau)\varepsilon\mathcal{S}_n(\{-1, 1\}, \times)$$

 $\det A = \begin{vmatrix} a_{1,1} & \cdots & a_{1,j} & \cdots & a_{1,n} \\ a_{i,1} & \cdots & a_{i,j} & \cdots & a_{i,n} \\ a_{n,1} & \cdots & a_{n,j} & \cdots & a_{n,n} \end{vmatrix}.$

$$A = (a_{i,j})_{1 < i,j < n} \det A$$





