



Why

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Definition

Let $A \in \mathbf{R}^{d \times d}$. The determinant of A is

$$\sum_{\sigma \in S_n} \left(\text{sgn}(\sigma) \prod_{i=1}^n a_{i, \sigma_i} \right)$$

We denote the determinant of A by $\det A$.

¹Future editions will include, and will probably take the genetic approach via volumes in three-dimensional space.

