

- 1 Why
- 2 Definition

2.1 Notation

TODO: notation uses permutations and $d \times d$.

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

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

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

Real I

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