



Matrix Determinant of Product

1 Why

TODO

2 Result

Proposition 1. *The determinant of a product of two real matrices is the product of the determinant of each matrix.*

Proof. Let $A \in \mathbf{R}^{n \times p}$ and $B \in \mathbf{R}^{p \times n}$. We want to show that

$$\mathbf{det}(AB) = \mathbf{det}(A) \mathbf{det}(B).$$

TODO

□



