



# MATRIX DETERMINANT OF PRODUCT

**Why**

TODO

**Result**

**Prop. 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

$$\det(AB) = \det(A) \det(B).$$

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□

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<sup>1</sup>Future editions will include a proof.



