



Matrix Determinant Of Inverse

1 Why

2 Result

Proposition 1. *The determinant of an invertible square real matrix is the multiplicative inverse of the determinant of the matrix.*

Proof. Let $A \in \mathbf{R}^{n \times n}$ be invertible. We want to show that

$$\mathbf{det}(A^{-1}) = (\mathbf{det} A)^{-1}$$

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□