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Matrix Theorems

Here, we list without proof some of the most important rules of matrix algebra - theorems that govern the way that matrices are added, multiplied, and otherwise manipulated.

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Notation

- A, B, and C are matrices.
- A' is the transpose of matrix A.
- A⁻¹ is the inverse of matrix A.
- I is the identity matrix.
- x is a real number.

Matrix Addition and Matrix Multiplication

- A + B = B + A (Commutative law of addition)
- A + B + C = A + (B + C) = (A + B) + C (Associative law of addition)
- ABC = A(BC) = (AB)C (Associative law of multiplication)
- A(B + C) = AB + AC (Distributive law of matrix algebra)
- x(A + B) = xA + xB

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Transposition Rules

- (A')' = A
- (A + B)' = A' + B'
- (AB)' = B'A'
- (ABC)' = C'B'A'

Inverse Rules

- AI = IA = A
- AA⁻¹ = A⁻¹A = I
- (A⁻¹)⁻¹ = A
- (AB)⁻¹ = B⁻¹A⁻¹
- (ABC)⁻¹ = C⁻¹B⁻¹A⁻¹
- (A')⁻¹ = (A⁻¹)'



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