Content of Algebra 3

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Content

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4. **Matrix Norms:** Vector norms, Matrix norms, Inner product or Scalar product
5. **Special Matrices**
   - Zero matrix, diagonal matrix, unit matrix or the identity matrix, upper triangular matrix, lower triangular matrix, strictly triangular matrices, ...
   - Symmetric matrices, Skew-symmetric matrices, Orthogonal matrices
   - Hermitian matrices, skew-Hermitian matrices
   - Unitary matrices, Idempotent matrix, Normal matrices, Nilpotent matrices, ...

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