

**MATH0047: ADVANCED LINEAR ALGEBRA
CHEATSHEET**

CHAPTER 1: Matrices and Linear Equations

Size of matrix	$(m \times n) \rightarrow m$ rows, n columns
Matrix Multiplication $\begin{matrix} A - m \times r \\ B - r \times n \end{matrix} \rightarrow (AB) - m \times n$	$(AB)_{ij} = \sum_{k=1}^r A_{ik} B_{kj}$
Trace Sum of entries along main diagonal	$\text{tr}(A) = \sum_{i=1}^n A_{ii} = A_{11} + A_{22} + \dots + A_{nn}$
Transpose Flip matrix- make rows columns and columns rows	$(A^T)_{ij} = A_{ji}$
Commutative Addition Property	$A + B = B + A$
Distributive Property	$A(B+C) = AB + AC$
Associative Property	$A(BC) = (AB)C$
Multiplication is NOT Commutative	$AB \neq BA$
Transpose of Transpose	$(A^T)^T = A$
Transpose of Sum	$(A+B)^T = A^T + B^T$
Transpose of Product	$(AB)^T = B^T A^T$
Trace of Product	$\text{tr}(AB) = \text{tr}(BA)$

Inverse Matrices:

- A ($n \times n$) has inverse B ($n \times n$) iff. \rightarrow

$$(AB) = I_n \text{ and } (BA) = I_n$$

- If A and B are invertible ($n \times n$) matrixes, (AB) will also be invertible with inverse $B^{-1}A^{-1}$

\downarrow
Applies to product of any no. of matrices

Gauss Jordan Elimination- reduction to reduced row echelon form

<https://tinyurl.com/gaussjordan1>

Conditions for Reduced row echelon form:

- 1) Each zero row appears below all non-zero rows
- 2) For each non-zero row, the first (leftmost) non-zero entry is a 1
- 3) The leading 1 of the lower row is to the right of the leading 1 of the row above
- 4) Each column that contains a leading 1 has zeros everywhere else

Without (4) \rightarrow matrix is in row echelon form (NOT reduced)

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