MATH-332: Linear Algebra	Chapter: 2

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Matrix Algebra

Section 2.4: Partitioned Matrices

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Lecture: Partitioned Matrices

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Topics:	Multiplication of partitioned matrices
	Column-Row expansion of AB
	Inverses of Partitioned Matrices - See Homework

Prac: 1, 2

Prob: 1, 3, 5, 7, 9, 11, 13

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Section Goals

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- Understand how a matrix can be partitioned into sub-matrices and how this effects the algebra of matrices.

- Characterize matrix multiplication in terms of outer-product expansions.

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Section Objectives

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- Define matrix partitioning and its associated algebraic operations.

- State theorem 10 and provide an example of its mechanics highlighting the so-called outer-product definition of matrix multiplication.