

CSI 30 LECTURE NOTES (Ojakian)

Topic 7: Matrices

OUTLINE

(References: 2.6)

1. Matrix Addition
 2. Matrix Multiplication
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1. Matrix Definition

- (a) Definition.
- (b) Dimensions.

2. Matrix Addition

3. Matrix Multiplication

- (a) Small examples
- (b) Find example of non-commutativity.
- (c) Example: $A \cdot B$, where each row of A is a person's buying pattern, and each column of A is some good; the number in an entry is the quantity bought. Each column of B are the prices of the goods in some country.
So $A \cdot B$ gives the amount a person pays in a given country (get estimates from students!).

4. Exercises

Section 2.6: 1 - 4, 10, 11