

Matrix Multiplication Guided Notes

1. What is necessary condition for matrix multiplication?
2. How the multiplication of matrices is carried out?
3. What is geometric transmission with matrices?
4. State the general properties of matrix multiplication.
5. How scalar multiplication is different from matrix multiplication.

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PROBLEM 01

If order of a matrix A is 3×2 and order of matrix B is 2×4 then order of AB will be:

- a. 2×2
- b. 3×2
- c. 3×4
- d. 4×3

PROBLEM 02

Given $A = \begin{bmatrix} -1 \\ 2 \end{bmatrix}$ $B = \begin{bmatrix} 1 & 0 \\ 2 & 4 \end{bmatrix}$ and $C = [1 \quad 3]$ find the following if exists:

- a. AB
- b. BA
- c. CA
- d. BC

PROBLEM 03

From the matrices if the geometrical figures have following vertices.

A(0,0) B(5,2) C(-4,2)

A(4,8) B(-7,4)

A(0,0) B(0,4) C(4,4)