Matrix Operations

Today's Standard

HSN.VM.C8 - (+) Add, subtract, and multiply matrices of appropriate dimensions.

Cues	Notes
What are matrices?	Matrices are rectangular arrays of numbers arranged in rows and columns.
How do you add matrices?	To add matrices, they must have the same dimensions. Add corresponding elements.
How do you subtract matrices?	To subtract matrices, they must have the same dimensions. Subtract corresponding elements.
How do you multiply matrices?	Matrix multiplication involves multiplying rows by columns. The number of columns in the first matrix must equal the number of rows in the second matrix.
Why is matrix multiplication not commutative?	Matrix multiplication is not commutative because the order of multiplication affects the result.

Summary

Matrices are arrays of numbers that can be added, subtracted, and multiplied under certain conditions. Understanding these operations is crucial for advanced mathematical applications.