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In mathematics, a matrix (plural matrices) is a rectangular array or table

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of numbers, symbols, or expressions, arranged in rows and columns. For example, the dimension of the matrix below is 2×3 (read "two by three"), because there are two rows and three columns: $\begin{bmatrix} - & - \\ - & - \end{bmatrix}$. Provided that they have the same size (each matrix has the same number of rows and the same number of columns as the ...

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Matrix (mathematics) - Wikipedia

Transpose matrix an odd number of times and you get the transpose matrix:

$((A^T)^T)^T = A^T$. The

transpose of any square diagonal matrix is the matrix itself. $\begin{bmatrix} 3 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6 \end{bmatrix}$

$\begin{bmatrix} 3 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6 \end{bmatrix}^T = \begin{bmatrix} 3 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6 \end{bmatrix}$

$\begin{bmatrix} 3 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6 \end{bmatrix}^T = \begin{bmatrix} 3 & 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6 \end{bmatrix}$

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& 0 & 0 \\ 0 & -2 & 0 \\ 0 & 0 & 6
\end{bmatrix} \]

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Example: a matrix with 3 rows and 5

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columns can be added to another matrix of 3 rows and 5 columns. But it could not be added to a matrix with 3 rows and 4 columns (the columns don't match in size) ... Multiplying Matrices Determinant of a Matrix Matrix Calculator Matrix Index Algebra 2 Index.

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