how to multiply two 3x3 matrices

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Matrices | Precalculus | Math | Khan Academy

Learn what matrices are and about their various uses: solving systems of equations, transforming shapes and vectors, and representing real-world situations. Learn how to add, subtract, and multiply matrices, and find the inverses of matrices.

Multiplying matrices (video) | Khan Academy

You can only multiply matrices if the number of columns of the first matrix is the same as the number of rows as the second matrix. For example, say you want to multiply A x B.

Matrix multiplication dimensions (article) | Khan Academy

Learn about the conditions for matrix multiplication to be defined, and about the dimensions of the product of two matrices.

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Inverting a 3x3 matrix using determinants Part 2: Adjugate matrix

Sal shows how to find the inverse of a 3x3 matrix using its determinant. In Part 2 we complete the process by finding the determinant of the matrix and its adjugate matrix.

Intro to matrix multiplication (video) | Khan Academy

The convention for matrix multiplication that we use is designed so that the product of two matrices corresponds to the composition of the linear transformations that they represent.

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Intro to matrix inverses (video) | Matrices | Khan Academy

And it's important to realize when we're doing matrix multiplication, that direction matters. I've actually given you some information here that-- we can't just assume when we were doing regular multiplication that, a times b is always equal to b times a.

Inverting a 3x3 matrix using determinants Part 1: Matrix of minors and ...

Sal shows how to find the inverse of a 3x3 matrix using its determinant. In Part 1 we learn how to find the matrix of minors of a 3x3 matrix and its cofactor matrix.