OPERATIONS WITH MATRICES WORKSHEET pdf

1: Basic Matrix Operations Worksheets

Basic Matrix Operations Date_____ Period____ Simplify. Write "undefined" for expressions that are undefined. Create your own worksheets like this one with.

To do this, you have to multiply in the following way: Just remember when you put matrices together with matrix multiplication, the columns what you see across on the first matrix have to correspond to the rows down on the second matrix. You should end up with entries that correspond with the entries of each row in the first matrix. For example, with the problem above, the columns of the first matrix each had something to do with Tests, Projects, Homework, and Quizzes grades. The row down on the second matrix each had something to do with the same four items weights of grades. But then we ended up with information on the three girls rows down on the first matrix. Alexandra has a 90, Megan has a 77, and Brittney has an See how cool this is? Oh, one more thing! Remember that multiplying matrices is not commutative order makes a difference , but is associative you can change grouping of matrices when you multiply them. Here are some basic steps for storing, multiplying, adding, and subtracting matrices: The inverse of a matrix is what we multiply that square matrix by to get the identity matrix. When you multiply a square matrix with an identity matrix, you just get that matrix back: Solving Systems with Matrices Why are we doing all this crazy math? A little easier, right? Here are a couple more types of matrices problems you might see: Watch the order when we multiply by the inverse matrix multiplication is not commutative , and thank goodness for the calculator! We can check it back: You can probably guess what the next determinant we need is: OK, now for the fun and easy part! Note that, like the other systems, we can do this for any system where we have the same numbers of equations as unknowns. These equations are called independent or consistent. Systems that have an infinite number of solutions called dependent or coincident will have two equations that are basically the same. One row of the coefficient matrix and the corresponding constant matrix is a multiple of another row. A system that has an infinite number of solutions may look like this: Systems with no solutions called inconsistent will have one row of the coefficient matrix a multiple of another, but the coefficient matrix will not have this. So a system that has no solutions may look like this: This is called a singular matrix and the calculator will tell you so: Applications of Matrices Matrices can be used for many applications, including combining data, finding areas, and solving systems. Here are some examples of those applications. Using the Determinant to get the Area of a Triangle In your Geometry class, you may learn a neat trick where we can get the area of a triangle using the determinant of a matrix. The formula for the area of the triangle bounded by those points is: Use the equation above to find the area: Matrix Multiplication Word Problem: The store wants to know how much their inventory is worth for all the shoes. How should we set up the matrix multiplication to determine this the best way? This way our dimension will line up. Our matrix multiplication will look like this, even though our tables look a little different I did this on a calculator: Another Matrix Multiplication Word Problem: A nut distributor wants to know the nutritional content of various mixtures of almonds, cashews, and pecans. Her supplier has provided the following nutrition information:

2: Algebra 2 - Matrices Worksheets | Basic Matrices Worksheets

All Matrix Operations Date_____ Period____ Simplify. Create your own worksheets like this one with Infinite Algebra 2. Free trial available at www.enganchecubano.com

3: The Matrix and Solving Systems with Matrices â€" She Loves Math

Mixed Operations Matrices Worksheets These Algebra 2 Matrices Worksheet will produce problems for mixed operations on matrices. These Matrices Worksheets are a good resource for students in the 8th Grade through the 12th Grade.

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4: Matrices Worksheets - Printable Worksheets

Matrix Basics Worksheet 2 Matrix A represents the number of points scored in each quarter for the first 4 games of football played by Frederick High School.

5: Matrix Multiplication Worksheets

Addition of matrices To define the addition of two matrices and, they must be of equal dimensions. The result of addition of these two matrices is matrix which is of the same dimensions and is valid.

6: Matrix Operations Worksheets - Printable Worksheets

Basic Matrix Operations Worksheets: Addition, Subtraction Multiplication and Division of Matrices Worksheets for High School Algebra.

7: Algebra 2 Worksheets | Matrices Worksheets

Worksheet on Matrices Philippe Laval November 18, Abstract This worksheet shows the student how to work with matrices using the TI 81 or the TI82/

8: Matrix Worksheets

Matrix is an array of numbers in rows and columns. It plays an important role in the field of computer science. Learning matrices help to solve complex problems related to real life situations in an easy manner.

9: Basic Math Operations Worksheets

Matrices: Basic Operations 2 32 3 if and only if The sum of two matricesof the same size is a matrix with elements that are the sums of the corresponding elements of the two given matrices.

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