1 Why

Of course matrices of real numbers are the most important of all.

Definition

A *real-valued matrix* or *matrix of real numbers* or *matrix* is a matrix in the real numbers.

Notation

We denote the set n by m real-valued matrices by $\mathsf{R}^{n \times m}$.

Real Matrices

Matrices

Vectors

Fields   N-Dimensional Space

Groups   Real Numbers   Space

Algebras   Rational Numbers

Operations   Integer Numbers

Functions

Relations   Zero

Ordered Pairs   Natural Numbers   Equation Solutions

Unordered Pairs   Empty Set   Set Intersections   Set Unions

Set Specification   Equations

Set Inclusion

Sentences   Set Equality

Sets   Identity

Objects