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Discrete Mathematics

Functions

Defintion of a function - Part 1

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Defintion of a function - Part I

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Let us define what a function is formally. You saw a couple of examples. In fact many examples. Let's take the examples that we told you just now of ABC and D. From A to B there is an association of every element to a unique element on this side.

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A function maps
elements on the left side
to unique elements on
the right

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So 0 is associated with 0. 1 was associated with 2. 2 was mapped to 4. 3 to 6. 4 to 8 and 5 to 10. you see this is called a function. Second example the mapping was in general a term x going to x square. Correct. So by a function we mean something that maps elements of the left side to unique elements of the right side.