Direction Function and Its Use in Basic Mathematics

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The aim of the research is to define new mathematical structure based on distinctive axioms group. While choosing main concepts and axioms I use generalization methodology; I choose objects that have been well studied and allocate part among their properties. As a priority for main concepts and axioms, I use these data for new theory, assigning them selected properties. Therefore, I learn certain characteristics to the known objects generalizing them. The idea involves that according to the interpretation method, the nonresistance of axiomatic system is initially guaranteed. Using main concepts I defined the objects like plane, point, straight line. Point in my structure represents a real number pair (field elements); and as an example in analytical geometry, the representation of a certain point with a number pair is connected to coordination system and generally, in different systems, this representation varies. In this case, a pair of numbers is itself a point because there is no concept of a distance, so the coordinates are not defined.