

Chapter 1

The Foundations of Geometry

1.1. The axiomatic method

Perhaps the most significant contribution to the foundations of mathematics made by the ancient Greeks was the axiomatic method and the notion of proof. The idea is this: there are a number of fundamental mathematical truths, called axioms or postulates, from which other true statements may be derived in a finite number of steps. The mathematical statements that can be proved are called theorems.

An axiomatic system is a list of primitive (undefined) notions together with a list of statements (called "axioms") that are presupposed to be "true." A theorem is any statement that can be proved using logical deduction from the axioms. Generally, a mathematical theory that is generated by the axiomatic method includes:

- *Primitive notions:* A primitive notion is an undefined concept. It is not defined in terms of previously defined concepts. In a formal theory, primitive notions usually include primitive terms and primitive relations.
- *System of axioms:* A set of propositions that are taken to be true (axioms). These axioms describe the nature and properties of the primitive notions.
- *Derived notions and theorems:* A derived notion is a concept defined by previous notions. A theorem is a statement that has been proved based on previously established statements, such as other theorems, and generally accepted statements, such as axioms.

For example, the primitive notions of Hilbert's axiom system for Euclidean Geometry are:

- Primitive terms: point, straight line, plane
- Primitive relations: *Lies on* (Incidence, containment), *betweenness*, and *congruence*.

Here are some of Hilbert's axioms:

- Axiom I.1: Two given points always determine a straight line.

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