Postulate

Examples & Non-Examples

Example	Example	Non-Example
Line Postulate Through any two points, there is exactly one line.	**Line Intersection Postulate** If two lines intersect, then they intersect in exactly one point.	A triangle always has three equal sides. This is not always true. It's a statement someone might assume when looking at an equilateral triangle.

Definition

A **postulate** (also called an **axiom**) is:

> "A **statement that is accepted as true without proof**."

Key characteristics:

- Postulates are **basic assumptions** about geometric relationships.
- They form the **foundation** for building logical arguments and **proving theorems**.
- They are considered so **obvious or fundamental** that they don't need to be proven.

Example:

One common postulate is the **Line Postulate**:

> "Through any two points, there is exactly one line."

This is accepted as true and used to prove more complex geometric ideas.