Q1:- what is meaning of the proof

A1:-a proof is considered, across multiple fields as a method for ascertaining the truth.

Q2:-what is meaning of the mathematical proof

A2:-a mathematical proof is a verification of a proposition by a chain of logical deductions from a set of axioms.

Q3:-what is meaning of porposition ?

A3:-A proposition is a statement that is either true or false You may not know which one, but it's one or the other

Q4:-what is meaning of predication?

A4:-a predicate is a proposition whose truth depends on the value of a variable

Q5:-what is mean of implication

A5:-An implication p implies q is said to be true if p is false or q is true, either one

Q5:-what is meaning of axiom?

A5:-it is a proposition that is assumed to be true and can not use to prove proposition to be both true and false in the same time(Consist) and can use yo know if propsition is true or false(complete)

Q6:- how axiomes should be?

A6:-consistent and complete

popular notations

1.1.4 Notation

Mathematicians have devised symbols to represent words like "AND" and "NOT". The most commonly-used symbols are summarized in the table below.

English	**Symbolic Notation**
NOT(P)	$\neg P$ (alternatively, $\overline{P}$)
P AND Q	$P \wedge Q$
P OR Q	$P \vee Q$
P IMPLIES Q	$P \longrightarrow Q$
if P then Q	$P \longrightarrow Q$
P IFF Q	$P \longleftrightarrow Q$