

# What does Gödel's Incompleteness mean for the Working Mathematician?

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As I understand, Gödel showed that within a logical system, propositions can be formulated that are undecidable or undemonstrable within the axioms of the system. That is, within the system, there exist certain clear-cut statements that can neither be proved nor disproved. Hence one cannot, using the usual methods, be certain that the axioms will not lead to contradictions.

As a working mathematician (who is not an expert in logic), how worried should I be that the statement that I am trying to prove is not one of these undecidable statements?

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