tcp.1 Introduction

inc:tcp:int:sec

This section should be rewritten.

We have the following:

1. A definition of what it means for a function to be representable in **Q** (**??**)
2. a definition of what it means for a relation to be representable in **Q** (**??**)
3. a theorem asserting that the representable functions of **Q** are exactly the computable ones (**??**)
4. a theorem asserting that the representable relations of **Q** are exactly the computable ones **??**)

A *theory* is a set of sentences that is deductively closed, that is, with the property that whenever T proves φ then φ is in T. It is probably best to think of a theory as being a collection of sentences, together with all the things that these sentences imply. From now on, I will use **Q** to refer to the *theory* consisting of the set of sentences derivable from the eight axioms in **??**. Remember that we can code formula of **Q** as numbers; if φ is such a formula, let $^{\#}\varphi^{\#}$ denote the number coding φ. Modulo this coding, we can now ask whether various sets of formulas are computable or not.

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Bibliography