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0.1 Signatures

0.1.1 Structures

A logical structure consists of:

- Domain
- Interpretation
- Signature

0.1.2 Domain

The domain is the set of variables in the structure.

We include an infinite number of variables.

0.1.3 Interpretation

The interpretation assigns values to propositional and predicate variables.

0.1.4 Signature

A logical signature describes the language of the logic which is used to construct statements. This includes:

- Functions
- Relations
- Operators

The language of a signature is all possible sentences, or formulae which can be constructed from this signature.

We include an infinite number of functions, relations and all operators.