Predicate truth set definition

Definition: The **truth set** of a predicate is the collection of all elements in its domain where the predicate evaluates to T.

Notice that specifying the domain and the truth set is sufficient for defining a predicate.

Predicate truth set example

The truth set for the predicate $V(x)$ is _____ .

The truth set for the predicate $N(x)$ is _____ .

The truth set for the predicate $Mystery(x)$ is _____ .