

## 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 \_\_\_\_\_.