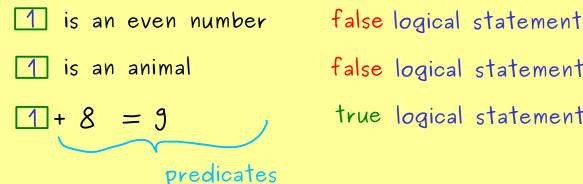
ON STEADY





Start Learning Sets - Part 2



false logical statement true logical statement

Predicate: An expression with undetermined variables that ascribes a property to objects filled in for the variables.

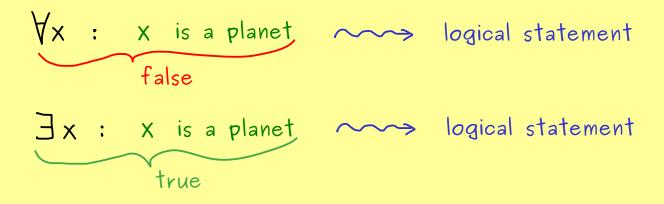
Form new sets:

For A := { Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune } form:  $\{ p \in A \mid p \text{ has at least 1 confirmed moon} \}$ 

Quantifiers:  $\forall x$  for all x∃x it exists X

(





Equality for sets: Two sets A, B are the same, written as A = B if  $\forall x : x \in A \iff x \in B$ is true. Example:  $C := \{2, 3, 5\} = \{3, 5, 2\} = : \mathbb{D}$   $1 \in \mathbb{C} \iff 1 \in \mathbb{D}$  true

 $2 \in \mathbb{C} \iff 2 \in \mathbb{J}$  true  $\{2,3,5\} = \{2,2,2,3,3,5\}$ 

