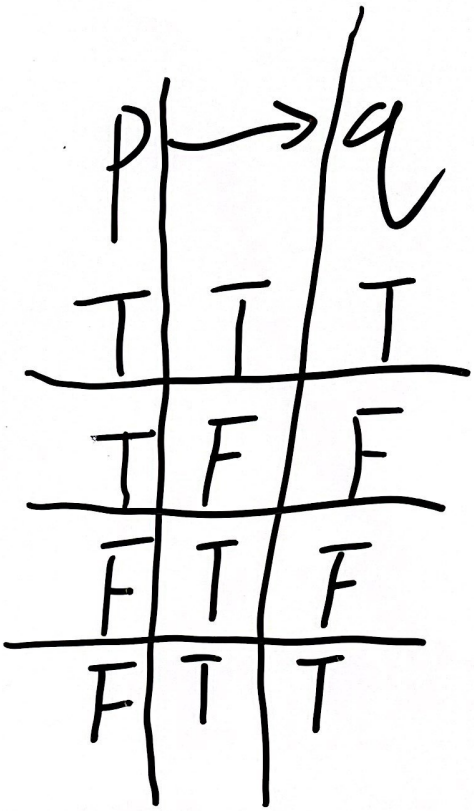
T: A Subset of Real World

p and q
are both
PROPOSITIONS
in Formal Logics.

T : A



P: condition

$\rightarrow$: deduction

q: Conclusion

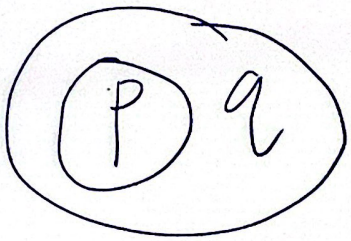
The whole process, $(p \rightarrow q)$: Argument

To check a Deduction or an Argument is T or F, just check if $p \subseteq q$.

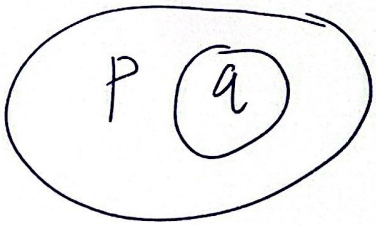
Venn Map

$\rightarrow$ is T

Venn Map or F, just check if $p \subseteq q$.

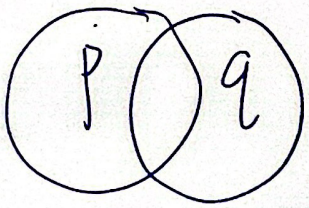
1. 

$\because p \subsetneq q \therefore p \to q$ is T

2. 

$\because q \subseteq p \therefore p \to q$ is F

3. P and q are identical sets. $\because p \subseteq q \therefore p \to q$ is T

4. 

$p \to q$ is F.

p intersects with q.

5. IF Propositions are F, they should be regarded as NULL SETS ($\{\emptyset\}$).

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T	F	F
F	T	F
F	T	T

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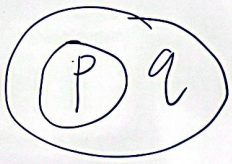
Venn Map

1. 

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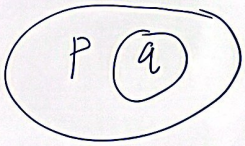
2. 

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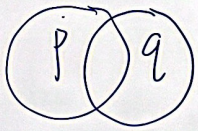
4. 

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