

Chapter Two Formal Semantics Summary Sheet

1. Principle of Bivalence: In any possible situation, a sentence is either true or false in that situation (not both).

2. Negation Rule

▲	\sim ▲
1	0
0	1

3. Conjunction Rule

●	▲	$(\bullet \wedge \blacktriangle)$
1	1	1
1	0	0
0	1	0
0	0	0

A conjunction is only true when both its parts are true.

4. Disjunction Rule

●	▲	$(\bullet \vee \blacktriangle)$
1	1	1
1	0	1
0	1	1
0	0	0

A disjunction is only false when both its parts are false.