

# Mathematical Logic

**Theorem 1.2.29:** Let  $p$ ,  $q$ , and  $r$  be statements. Then the following logical equivalences hold.

- (i) **Commutative laws:**  $p \wedge q \equiv q \wedge p$  and  $p \vee q \equiv q \vee p$
- (ii) **Associative laws:**  $(p \wedge q) \wedge r \equiv p \wedge (q \wedge r)$  and  
 $(p \vee q) \vee r \equiv p \vee (q \vee r)$
- (iii) **Distributive laws:**  $p \vee (q \wedge r) \equiv (p \vee q) \wedge (p \vee r)$  and  
 $p \wedge (q \vee r) \equiv (p \wedge q) \vee (p \wedge r)$
- (iv) **Absorption laws:**  $p \wedge (p \vee q) \equiv p$  and  $p \vee (p \wedge q) \equiv p$
- (v) **Idempotent laws:**  $p \wedge p \equiv p$  and  $p \vee p \equiv p$
- (vi) **Double negation law:**  $\sim\sim p \equiv p$
- (vii) **DeMorgan's laws:**  $\sim(p \wedge q) \equiv (\sim p) \vee (\sim q)$  and  
 $\sim(p \vee q) \equiv (\sim p) \wedge (\sim q)$

# Mathematical Logic

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