

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
 $\sim(p \vee q) \equiv (\sim p) \wedge (\sim q)$

The Development Of Mathematical Logic

Padhraic Smyth



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