

Tipp: Füge ggfs. zusätzliche Spalten ein

Kommutativgesetze

| A | B | $A \wedge B$ | $B \wedge A$ |
|---|---|--------------|--------------|
| 1 | 1 | | |
| 1 | 0 | | |
| 0 | 1 | | |
| 0 | 0 | | |

| A | B | $A \vee B$ | $B \vee A$ |
|---|---|------------|------------|
| 1 | 1 | | |
| 1 | 0 | | |
| 0 | 1 | | |
| 0 | 0 | | |

Assoziativgesetze

| A | B | C | $(A \wedge B) \wedge C$ | $A \wedge (B \wedge C)$ |
|---|---|---|-------------------------|-------------------------|
| 1 | 1 | 1 | | |
| 1 | 1 | 0 | | |
| 1 | 0 | 1 | | |
| 1 | 0 | 0 | | |
| 0 | 1 | 1 | | |
| 0 | 1 | 0 | | |
| 0 | 0 | 1 | | |
| 0 | 0 | 0 | | |

| A | B | C | $(A \vee B) \vee C$ | $A \vee (B \vee C)$ |
|---|---|---|---------------------|---------------------|
| 1 | 1 | 1 | | |
| 1 | 1 | 0 | | |
| 1 | 0 | 1 | | |
| 1 | 0 | 0 | | |
| 0 | 1 | 1 | | |
| 0 | 1 | 0 | | |
| 0 | 0 | 1 | | |
| 0 | 0 | 0 | | |

Idempotenzgesetze

| A | $A \wedge A$ |
|---|--------------|
| 1 | |
| 0 | |

| A | $A \vee A$ |
|---|------------|
| 1 | |
| 0 | |

Distributivgesetze

| A | B | C | $A \wedge (B \vee C)$ | $(A \wedge B) \vee (A \wedge C)$ |
|---|---|---|-----------------------|----------------------------------|
| 1 | 1 | 1 | | |
| 1 | 1 | 0 | | |
| 1 | 0 | 1 | | |
| 1 | 0 | 0 | | |
| 0 | 1 | 1 | | |
| 0 | 1 | 0 | | |
| 0 | 0 | 1 | | |
| 0 | 0 | 0 | | |

| A | B | C | $A \vee (B \wedge C)$ | $(A \vee B) \wedge (A \vee C)$ |
|---|---|---|-----------------------|--------------------------------|
| 1 | 1 | 1 | | |
| 1 | 1 | 0 | | |
| 1 | 0 | 1 | | |
| 1 | 0 | 0 | | |
| 0 | 1 | 1 | | |
| 0 | 1 | 0 | | |
| 0 | 0 | 1 | | |
| 0 | 0 | 0 | | |

Neutralitätsgesetze

| A | $A \wedge 1$ |
|---|--------------|
| 1 | |
| 0 | |

| A | $A \vee 0$ |
|---|------------|
| 1 | |
| 0 | |

Extremalgesetze

| A | $A \wedge 0$ |
|---|--------------|
| 1 | |
| 0 | |

| A | $A \vee 1$ |
|---|------------|
| 1 | |
| 0 | |