| | Theorem | | Dual | Name |
|---|---|---|---|---|
| T1 | $B \bullet 1 = B$ | T1' | $B + 0 = B$ | Identity |
| T2 | $B \bullet 0 = 0$ | T2' | $B + 1 = 1$ | Null Element |
| T3 | $B \bullet B = B$ | T3' | $B + B = B$ | Idempotency |
| T4 | | | $\bar{\bar{B}} = B$ | Involution |
| T5 | $B \bullet \overline{B} = 0$ | T5' | $B + \overline{B} = 1$ | Complements |

| | Theorem | | Dual | Name |
|---|---|---|---|---|
| T6 | $B \bullet C = C \bullet B$ | T6' | $B + C = C + B$ | Commutativity |
| T7 | $(B \bullet C) \bullet D = B \bullet (C \bullet D)$ | T7' | $(B + C) + D = B + (C + D)$ | Associativity |
| T8 | $(B \bullet C) + B \bullet D = B \bullet (C + D)$ | T8' | $(B + C) \bullet (B + D) = B + (C \bullet D)$ | Distributivity |
| T9 | $B \bullet (B + C) = B$ | T9' | $B + (B \bullet C) = B$ | Covering |
| T10 | $(B \bullet C) + (B \bullet \overline{C}) = B$ | T10' | $(B + C) \bullet (B + \overline{C}) = B$ | Combining |
| T11 | $(B \bullet C) + (\overline{B} \bullet D) + (C \bullet D)$ $= B \bullet C + \overline{B} \bullet D$ | T11' | $(B + C) \bullet (\overline{B} + D) \bullet (C + D)$ $= (B + C) \bullet (\overline{B} + D)$ | Consensus |
| T12 | $\overline{B_0 \bullet B_1 \bullet B_2 ...}$ $= (\overline{B_0} + \overline{B_1} + \overline{B_2} ...)$ | T12' | $\overline{B_0 + B_1 + B_2 ...}$ $= (\overline{B_0} \bullet \overline{B_1} \bullet \overline{B_2})$ | De Morgan's Theorem |