

$\forall A, B, C::$

Identity:

$$A \cdot 1 = 1 \cdot A = A$$

$$A + 0 = 0 + A = A$$

$\forall A, B, C::$

Identity:

$$A \cdot 1 = 1 \cdot A = A$$

$$A + 0 = 0 + A = A$$

Null Element:

$$A \cdot 0 = 0 \cdot A = 0$$

$$A + 1 = 1 + A = 1$$

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$$A + 0 = 0 + A = A$$

Null Element:

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$$A + 1 = 1 + A = 1$$

Idempotence:

$$A + A = A$$

$$A \cdot A = A$$

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Idempotence:

$$A + A = A$$

$$A \cdot A = A$$

Involution:

$$(A')' = A$$

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 $A + 0 = 0 + A = A$

Null Element: $A \cdot 0 = 0 \cdot A = 0$
 $A + 1 = 1 + A = 1$

Idempotence: $A + A = A$
 $A \cdot A = A$

Involution: $(A')' = A$

Complements: $A \cdot A' = 0$
 $A + A' = 1$

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Null Element: $A \cdot 0 = 0 \cdot A = 0$
 $A + 1 = 1 + A = 1$

Idempotence: $A + A = A$
 $A \cdot A = A$

Involution: $(A')' = A$

Complements: $A \cdot A' = 0$
 $A + A' = 1$

Commutativity: $A + B = B + A$
 $A \cdot B = B \cdot A$

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Null Element: $A \cdot 0 = 0 \cdot A = 0$
 $A + 1 = 1 + A = 1$

Idempotence: $A + A = A$
 $A \cdot A = A$

Involution: $(A')' = A$

Complements: $A \cdot A' = 0$
 $A + A' = 1$

Commutativity: $A + B = B + A$
 $A \cdot B = B \cdot A$

Associativity: $A + (B + C) = (A + B) + C$
 $A \cdot (B \cdot C) = (A \cdot B) \cdot C$

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Distributivity: $A \cdot (B + C) = (A \cdot B) + (A \cdot C)$
 $A + (B \cdot C) = (A + B) \cdot (A + C) \quad !!$

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 $A \cdot (B \cdot C) = (A \cdot B) \cdot C$

Distributivity: $A \cdot (B + C) = (A \cdot B) + (A \cdot C)$
 $A + (B \cdot C) = (A + B) \cdot (A + C) \quad !!$

Demorgan's
Theorems: $(A + B)' = A' \cdot B'$
 $(A \cdot B)' = A' + B'$