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1. Hukum Idempoten

$$A \cup A = A$$

$$A \cap A = A$$

2. Hukum Komutatif

$$A \cup B = B \cup A$$

$$A \cap B = B \cap A$$

3. Hukum Asosiatif

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

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

4. Hukum Distributif

$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$

$$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$$

5. Hukum Komplemen

$$A \cup A^c = U \quad (\text{dimana } U \text{ adalah himpunan semesta})$$

$$A \cap A^c = \emptyset \quad (\text{dimana } \emptyset \text{ adalah himpunan kosong})$$

6. Hukum Identitas

$$A \cup \emptyset = A$$

$$A \cap U = A$$

7. Hukum Dominasi

$$A \cup U = U$$

$$A \cap \emptyset = \emptyset$$

8. Hukum Absorpsi

$$A \cup (A \cap B) = A$$

$$A \cap (A \cup B) = A$$

9. Hukum Komplemen

$$(A^c)^c = A$$

10. Hukum De Morgan

$$(A \cup B)^c = A^c \cap B^c$$

$$(A \cap B)^c = A^c \cup B^c$$