

LEYES DEL ÁLGEBRA DE CONJUNTOS

1) **INVOLUTIVA** $(A')' = A$

2) **IDEMPOTENCIA** $A \cup A = A$

$$A \cap A = A$$

3) **CONMUTATIVA** $A \cup B = B \cup A$

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

4) **ASOCIATIVA**

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

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

5) **DISTRIBUTIVA**

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

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

6) **DE MORGAN** $(A \cup B)' = A' \cap B'$

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

7) **DE LA DIFERENCIA** $A - B = A \cap B'$

8) **DEL COMPLEMENTO** $A \cup A' = U$

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

9) **DE LA UNIDAD**

$$A \cup U = U$$

$$A \cap U = A$$

$$A \cup \emptyset = A$$

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

10) **ABSORCION**

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

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

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

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

RUBIÑOS