Introducción a la matemática

Unidad 2 (2da parte)

$$A \cup B$$
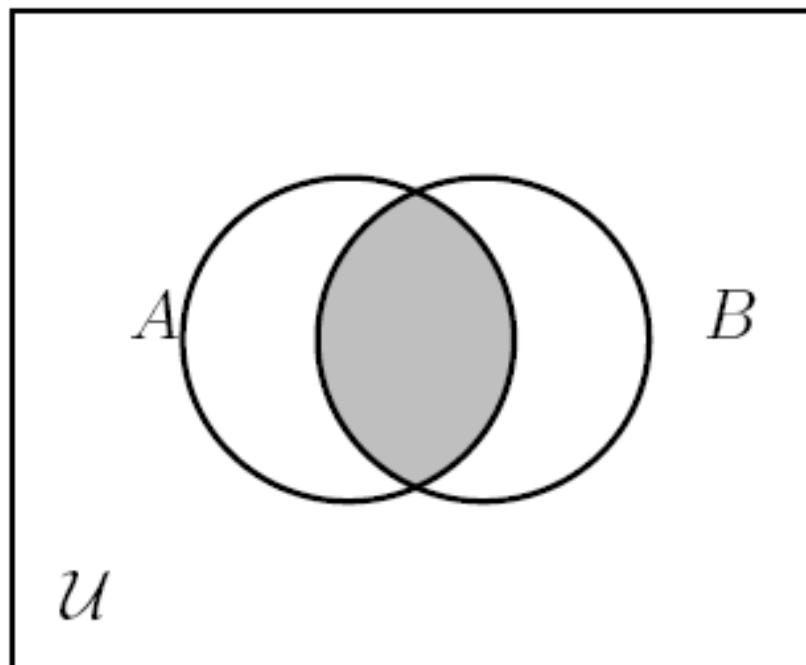
$$A \cup B = \{x \mid x \in A \lor x \in B\}$$

$A \cap B$
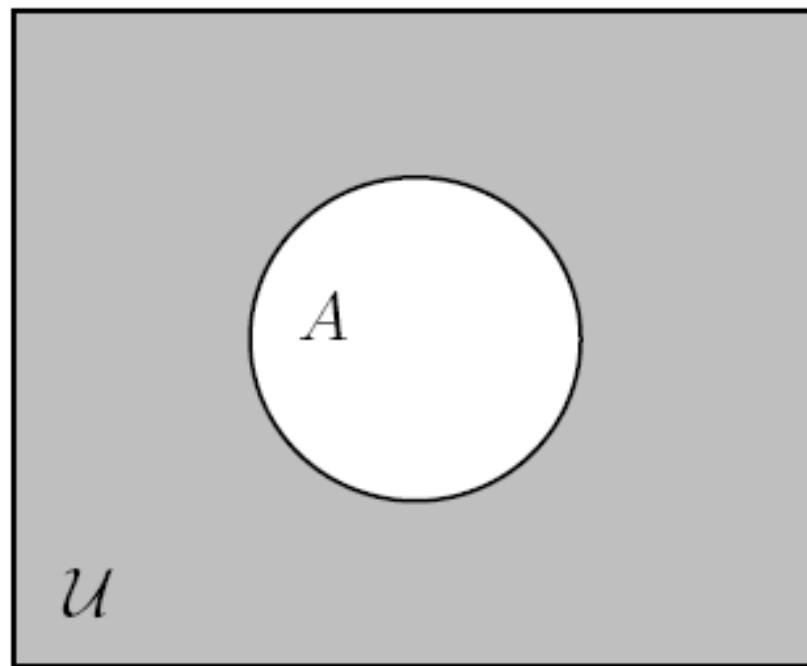
$$A \cap B = \{x | x \in A \land x \in B\}$$

$\boldsymbol{A^c}$
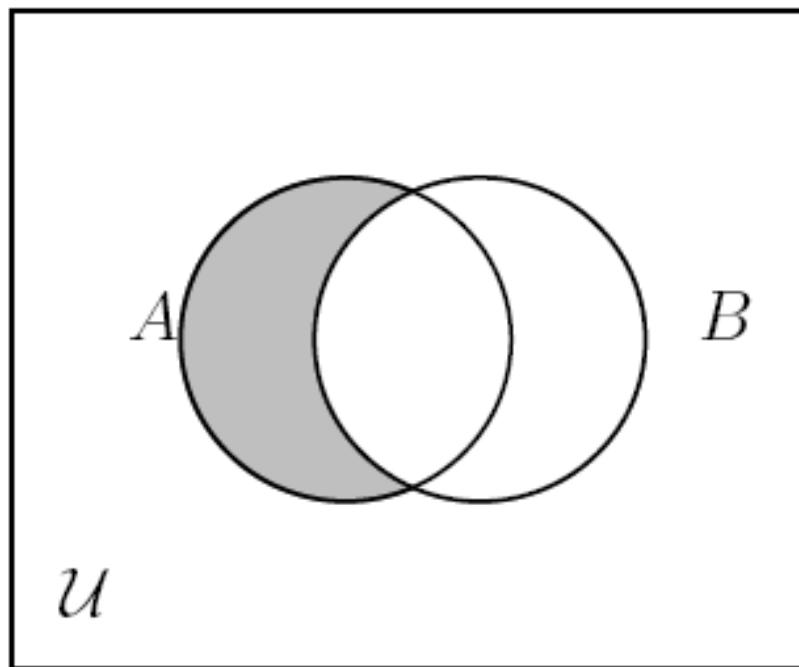
$$A^c = \{x \in \mathcal{U} \mid x \notin A\}$$

$$= \{x \in \mathcal{U} \mid \neg(x \in A)\}$$

$$A - B$$
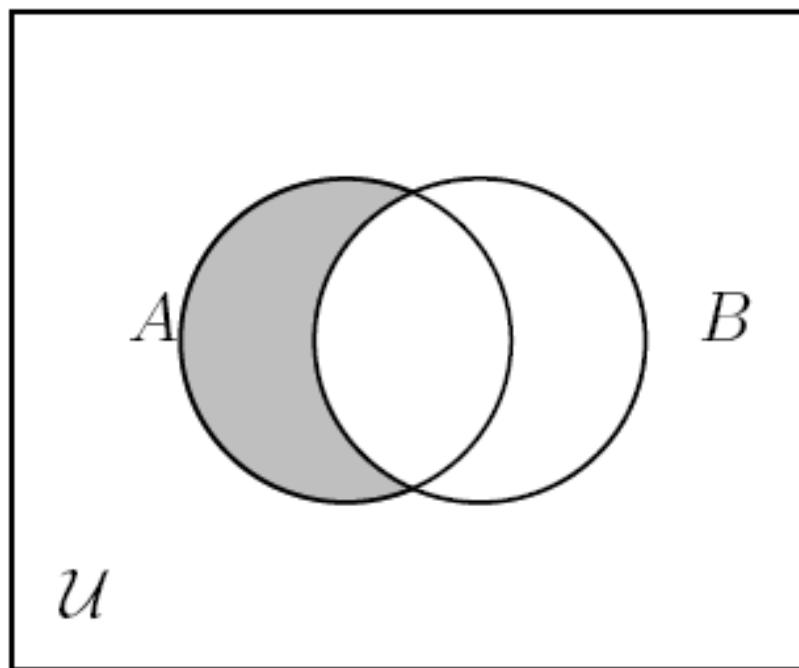
$$A - B = \{x | x \in A \land x \notin B\}$$

$$A - B$$

$$A - B = \{x | x \in A \wedge x \notin B\}$$

Propiedades

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

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

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

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

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

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

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

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

Fin