



**UNCUYO**  
UNIVERSIDAD  
NACIONAL DE CUYO



**FCEN**

Naturaleza - Ciencia - Humanismo

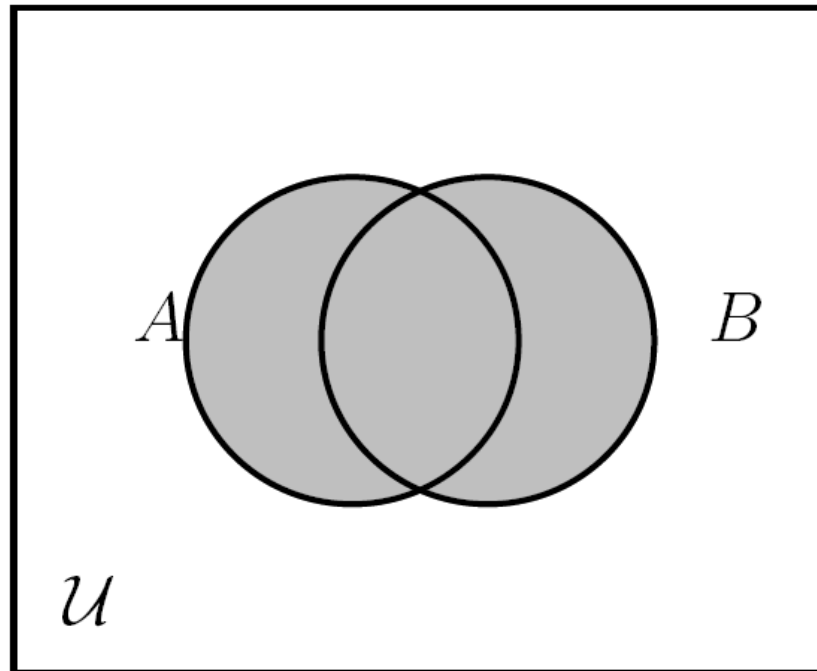
FACULTAD DE CIENCIAS  
EXACTAS Y NATURALES

**Introducción a la matemática**

**Unidad 2 (2da parte)**

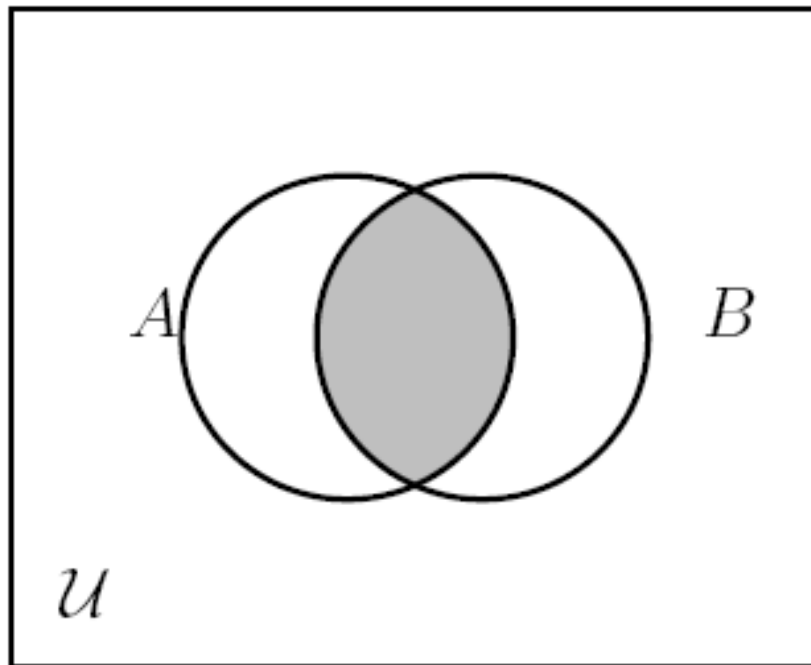
**$A \cup B$**

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



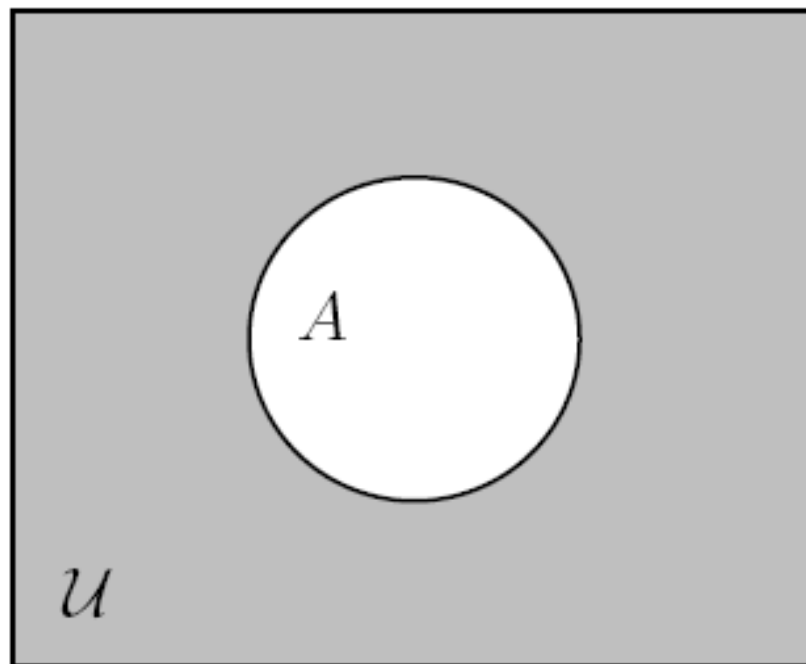
**$A \cap B$**

$$A \cap B = \{x \mid x \in A \wedge x \in B\}$$



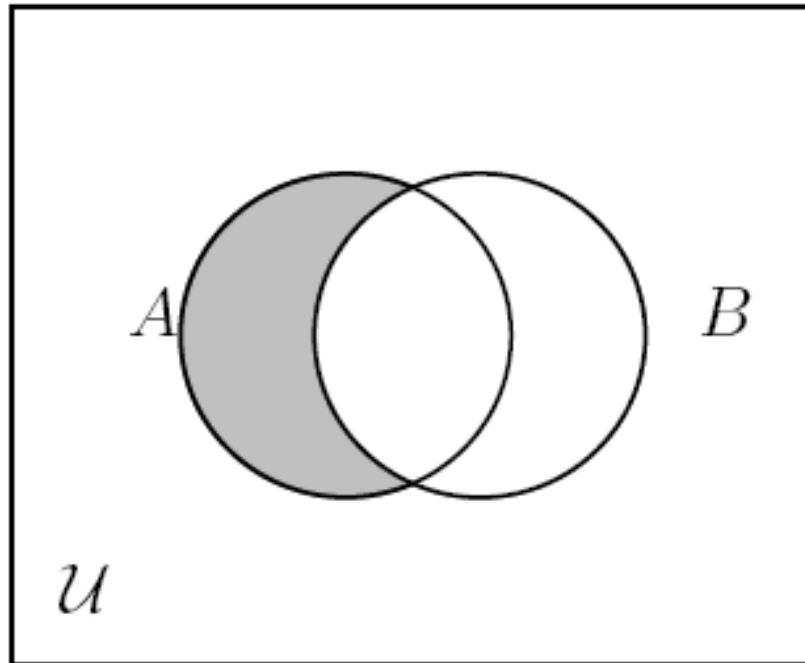
# $A^c$

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



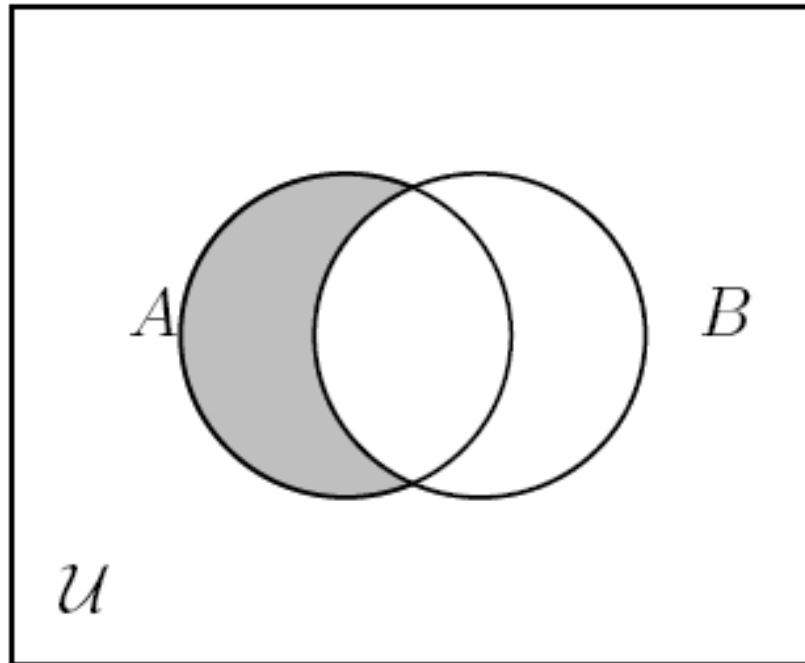
**$A - B$**

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



**$A - B$**

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



Propiedades

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

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



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

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

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

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

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

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

The image features a central black circle containing the word "Fim" in a white, elegant cursive script. This central circle is surrounded by a thick red ring, which is itself set within a larger orange ring. The background consists of a gradient of orange and red tones, creating a sense of depth and movement.

*Fim*