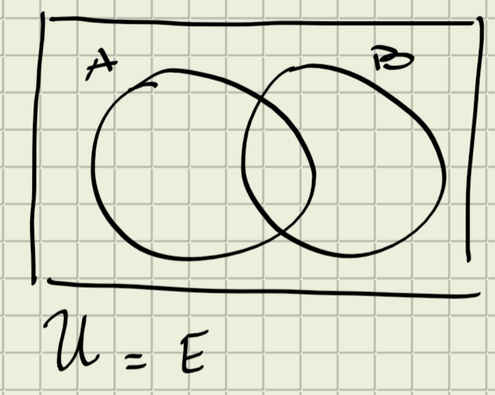
Conjuntos



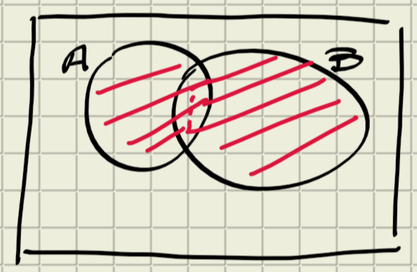
$\mathcal{U} = E$

Diagramas de Venn

$A \subseteq \mathcal{U}$

$B \subseteq \mathcal{U}$

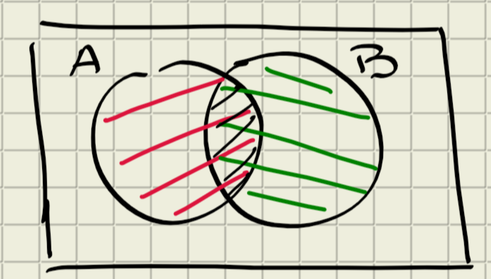
Unión $A \cup B = B \cup A$



$\mathcal{U}$

$h \in A \cup B$

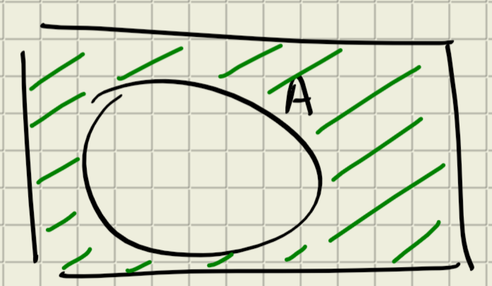
Intersección $A \cap B = B \cap A$



$\mathcal{U}$

$h \in A \cap B$

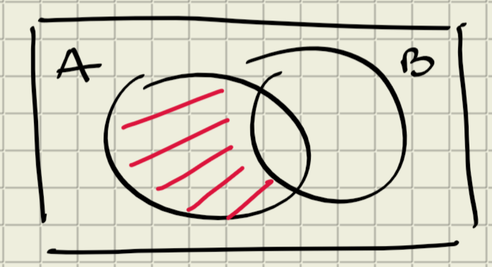
Complemento



$\mathcal{U}$

$h \in \bar{A}\ ;\ A'\ ;\ A^c$

Diferencia



$\mathcal{U}$

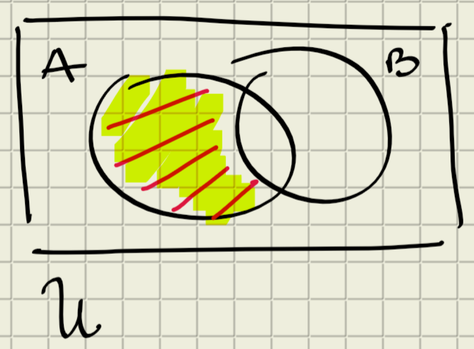
$A - B \neq B - A$

$h \in (A - B)$

Sólo $A\ (A - B)$

$A \cap B$

Diferencia

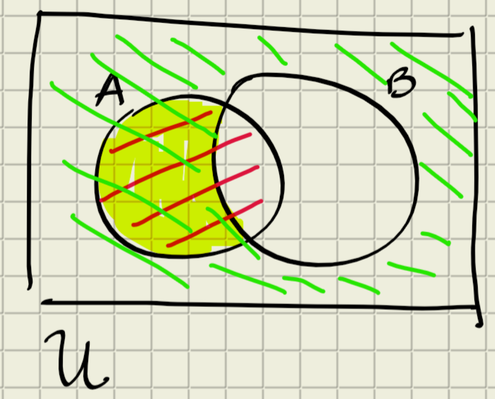


$A - B \neq B - A$

$h \in (A - B)$

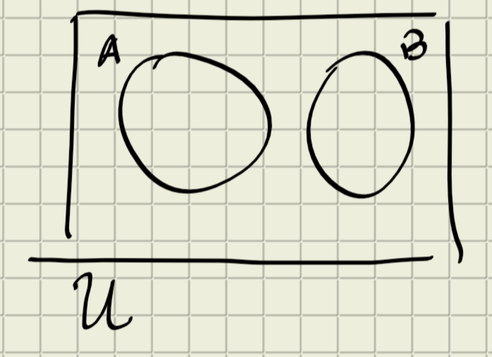
Sólo A $(A - B)$

$A \cap \bar{B}$



$B - A$ = Sólo B = $B \cap \bar{A}$

Incompatibles ; disjuntos o mutuamente excluyentes



$A \cap B = \underbrace{\phi}_{\text{conjunto vacío}} \quad \underbrace{\{\}}$

Leyes de Demorgan

i) $\overline{A \cup B} = \bar{A} \cap \bar{B}$

ii) $\overline{A \cap B} = \bar{A} \cup \bar{B}$