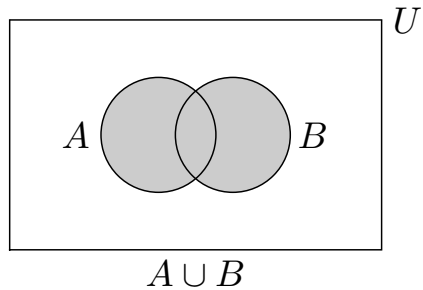
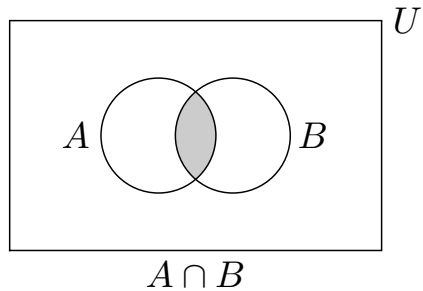


Basic Set Operations

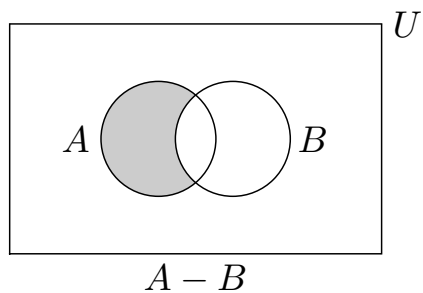
The **union** of sets A and B is denoted $A \cup B$. It corresponds to the set of all elements that are in A or in B .



The **intersection** of sets A and B is denoted $A \cap B$. It corresponds to the set of all elements that are both in A and in B .



The **difference** of sets A and B is denoted $A - B$. It corresponds to the set of all elements that are in A but not in B .



Let U be the universal set. The **complement** of set A is denoted \overline{A} . It corresponds to the set of all elements that are in U but not in A , in fact we have $\overline{A} = U - A$.

