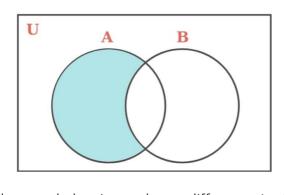
Let A and B be two sets. The set difference of A and B, denoted as A - B, is the set of all the elements of A that are not members of B.

Let A and B be two sets. The set difference A – B is :

$$A-B=\{x\in A\ and\ x\not\in B\}$$



Elements belonging to the set difference A-B are those elements that belong to A and do not belong to B.

1. If
$$A=\{a,b,c,d\}$$
 and $B=\{b,d\}$, then $A-B$ és $A-B=\{a,c\}$.

2. If $A=\{a,b,c,d\}$ and $B=\{c,d,e,f\}$, then $A-B=\{a,b\}$.

3. If $W=\{x\mid x \text{ odd and } x<13\}$ and $Z=\{7,8,9,10,11,12,13\}$, then $W-Z=\{1,3,5\}$ and $Z-W=\{8,10,12,13\}$.

cpmmutative operation and if A, B are two disjoint sets, then A - B = A and B - A = B. Some properties of the set difference :

Note that the set difference operation is not a

1. $A-A=\emptyset$

2. $A - \emptyset = \emptyset - A = A$

3.
$$A - B = A \cap B^c$$

4. $A \subset B \Leftrightarrow A - B = \emptyset$
5. $A - (A - B) = A \cap B$
6. $A \cap (B - C) = (A \cap B) - (A \cap C)$