We will say that sets A and B are equal, written as A = B if they have the same elements. That is, if, and only if, every elements of A is contained also in B and every elements is A. in symbols :

$$x \in A \Leftrightarrow x \in B$$

B, if every elements of A is also an element of B, that is, when the following is verified : $x \in A \Rightarrow x \in B$

We say that a set A is a subset of another set

written $A\subseteq B$

Note that by definition, the possibility that if
$$A$$
, B then $A = B$ is not excluded. If B has at least

one elements not belonging to *A*, but if every element of d *A* is an element of *B*, then we say that *A* is a proper subset of *B*.