

## Definition: Subset

*Given two sets  $A, B$ , we say that  $A$  is a subset of  $B$  when any element of  $A$  is also in  $B$ . In this case we write*

$$A \subseteq B$$

*We say that  $A$  is a proper subset of  $B$  when  $A$  is a subset of  $B$ , but  $A \neq B$ , in other words there is an element in  $B$  which is not in  $A$*