SET means every element
of S is also in T
$T = \{1, 2, 5, 4, 7\}$
7 (5) 5 = {2,5}
$S \subseteq T$ because $2 \in T$ , $5 \in T$
$s_0  x \in S \Rightarrow x \in T$ .
Mote: A = AUB, B=AUB
$B \cap A \subseteq A$ , $B \cap A \subseteq B$
$A - B \leq A$ $A \leq A$
$B-A \subseteq B$
Empty set: $\emptyset = \{\}$ For any A, $\emptyset \in A$ .
Power set: For any set A, P(A)
is the set of all subsets of A.
$E_X: A = \{1, 3, 4\}$
P(A)={\phi, \{1\}, \{3\}, \{4\}, \{1,3\}, \{1,4\}, \{3,4\}\}
$\Lambda$ 1 $\Omega$ 1 $\Omega$ $\Omega$ 1 $\Omega$ $\Omega$ 1 $\Omega$
A has 3 elements, $P(A)$ is a set of sets which has $2^3 = 8$ elements
which has 2 = 8 elements
$ A  = 3$ $ P(A)  = 8 = 2^{ A }$

Problems: board

 $M = \{1, ..., 9\}$ ,  $A = \{3, 5, 8\}$ ,  $B = \{2, 3, 5, 7\}$ 

Find: AUB

ANB

ACUB - AUB; ANB

B-A

AMB

AUB

AU(BAA)