

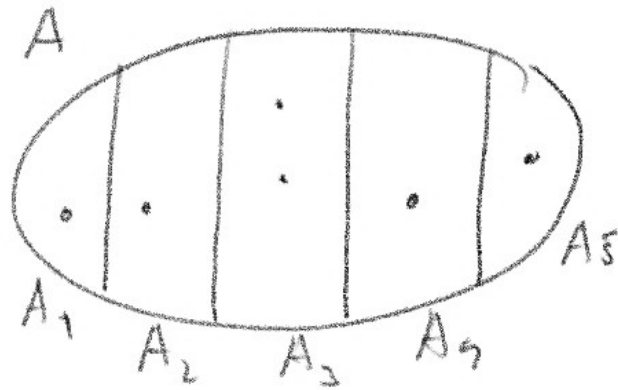
## • PARTITION

The sets  $A_1, \dots, A_n$  form a partition of the set  $A$  iff

1) none of the sets  $A_k$  is empty  $A_k \neq \emptyset \quad \forall k$

$$2) A_1 \cup A_2 \cup \dots \cup A_n = \bigcup_{k=1}^n A_k = A$$

$$3) A_m \cap A_k = \emptyset \quad \text{if } m \neq k$$



$$A = \{1, 2, 3\}$$

$A_1 = \{1\}, A_2 = \{2, 3\}$   
is a partition