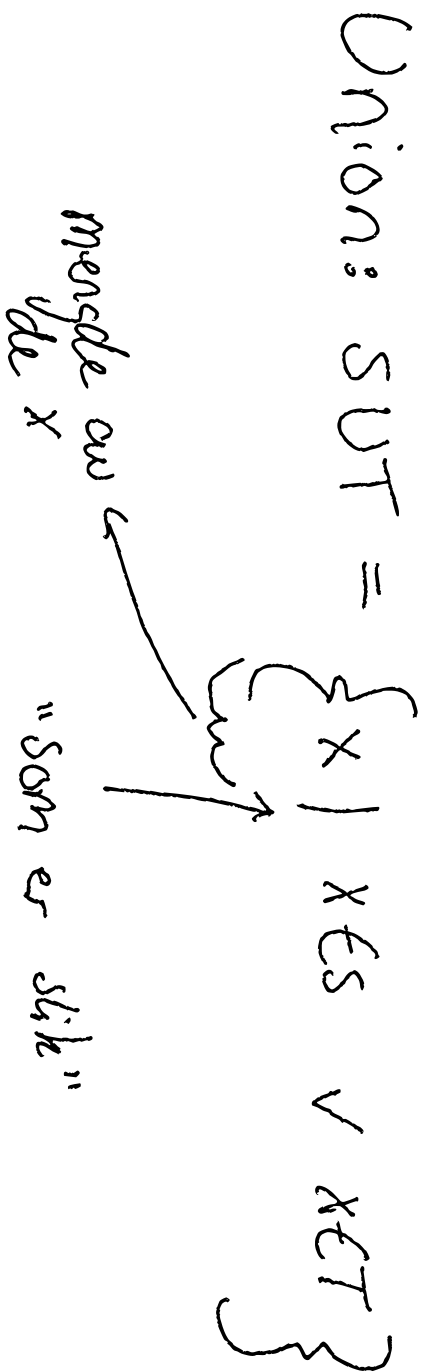


$$\text{Union: } S \cup T = \{x \mid x \in S \vee x \in T\}$$


  
 merge aus die x      "union"

$$\text{Schnitt: } S \cap T = \{x \mid x \in S \wedge x \in T\}$$

$$\text{Difference: } S - T = \{x \mid x \in S \wedge x \notin T\}$$

$\in$  = element i  
 $\notin$  = nicht element i

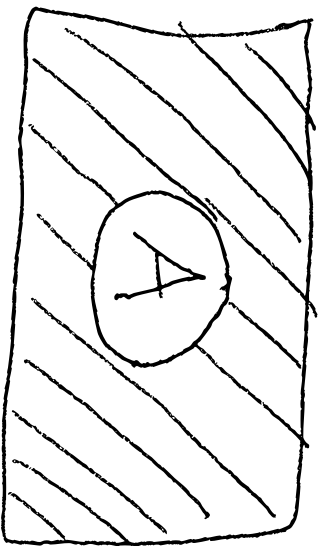
$$S = \{4, 7, 10, 12\} \quad T = \{7, 10, 19\}$$

$$S \cup T = \{4, 7, 10, 12, 19\} \quad (\text{alle})$$

$$S \cap T = \{7, 10\} \quad (\text{er med i begge})$$

$$S - T = \{4, 12\} \quad (\text{de som bare er i S})$$

$$T - S = \{19\} \quad (\text{de som bare er i T})$$



Det som er skravet her  
 = "komplementet til  
 $A$ " eller "ikke  $A$ "

$$\text{hatched area} = \int A \text{ eller } \bar{A}$$