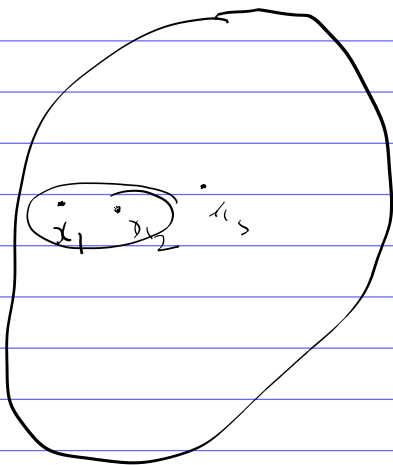
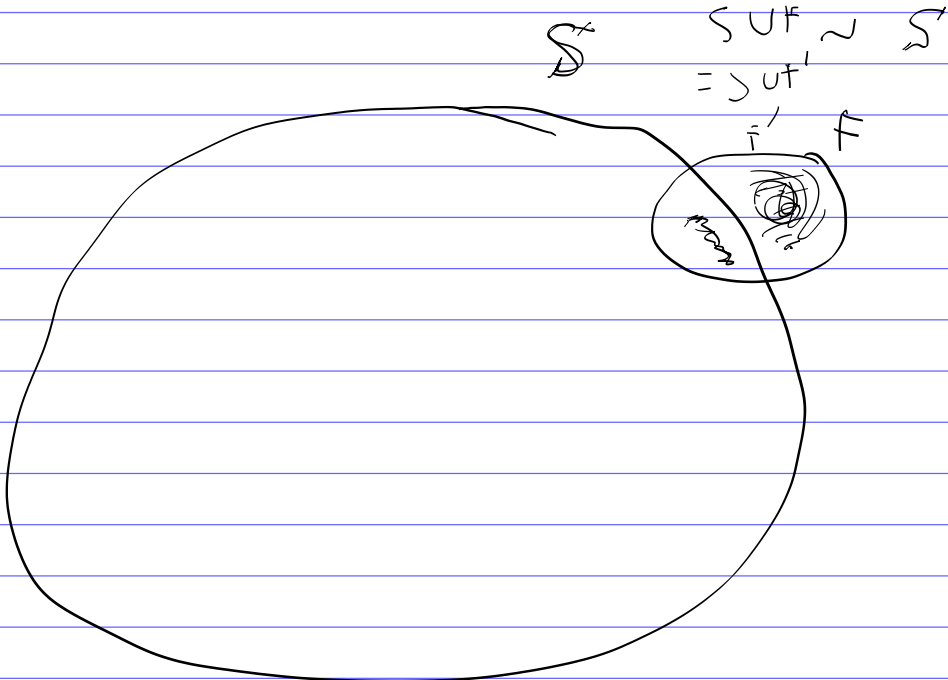


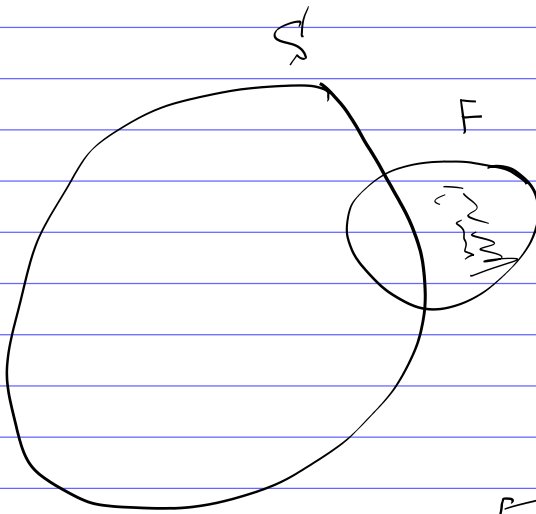
$\{1, 2, \dots, n\} \hookrightarrow A \quad n \in \mathbb{N}$



$S \setminus \{x_1\}$
 $= \{x_2, x_3\}$



$S \cup F \sim S'$
 $= S \cup F'$



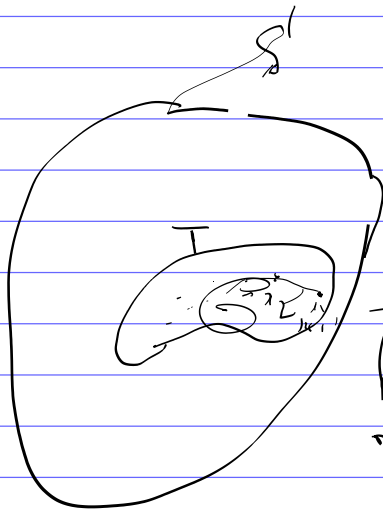
$$S \cup F \sim S'$$

$$= S' \cup F' \sim S'$$

$$F' = F \setminus (S \cap F)$$

w.l.o.g.

$$S \cap F = \emptyset$$



$$S' = \{x_1, x_2, x_3, \dots\}$$

$$F = \{y_1, y_2, \dots, y_k\}$$



$$\begin{matrix} \downarrow & \downarrow & \downarrow & \downarrow \\ y_1 & y_2 & y_3 & y_k \end{matrix}$$

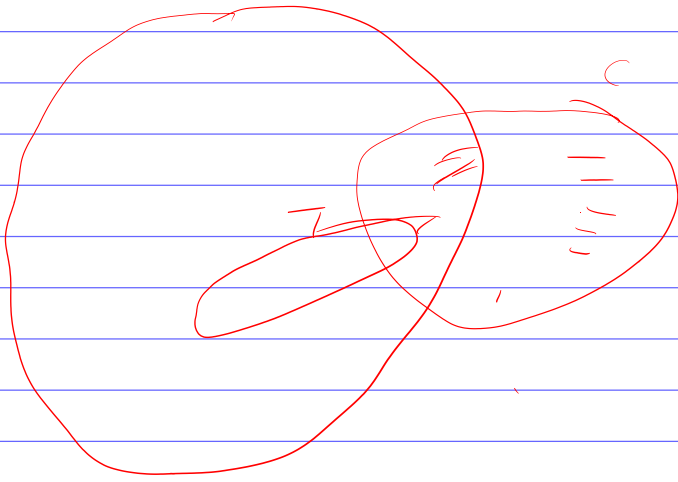
$$\begin{matrix} y_k & y_1 & y_2 \\ y_k & y_k & y_k \end{matrix}$$

$$S \cup F = (S \setminus T) \cup (T \cup F)$$

$$\downarrow \qquad \qquad \downarrow$$

$$(S \setminus T) \qquad T$$

\sum - uncountable



$$B = \{(\omega_1, \omega_2, \dots), \omega_i \in [0, 1]\}$$

(1 1 1 1 1 1 1 1 1 1)

(0 0 1 1 1 1 1 1 1 1)

$$(1100011111)$$

$$1/2 = \sqrt{1000000}$$

0.01111

$$\begin{bmatrix} 0 & 1 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} = \dots$$

$[0, 1) \sim A \sim B$

