

$$\mathbb{N} \subset \mathbb{N}_0$$

$$\mathbb{N}_0 \subset \mathbb{Z}$$

$$\mathbb{Z} \subset \mathbb{Q}$$

$$\mathbb{Q} \subset \mathbb{R}$$

$$\mathbb{I} \subset \mathbb{R}$$

→ Irrationals

$$\mathbb{N} \not\subset \mathbb{I}$$

$$\mathbb{Z} \not\subset \mathbb{I}$$

Relative
Potenzen

elemente →

→ inj.

Relative

Inclusion

Subinjekte →

→ injekte

2)

$$U = \{x/x \in N_0 \wedge x \leq 7\}$$

$$A \subseteq U$$

$$B \subseteq U$$

$$A = \{1:2:3\} \quad B = \{3:4:5\}$$

$$C \subseteq U$$

$$D \subseteq U$$

$$D \subseteq C$$

$$C = \{6:0:7\}$$

$$C \not\subseteq A$$

$$D = \{0:7\}$$

$\mathbb{Z} \not\subseteq \mathbb{N}$

\subset
 \downarrow

Inclusion
stricta

\subset

Inclusion
anvelope

$$x > 5 / x \in \mathbb{N}$$

$$x \geq 5 \wedge x \in \mathbb{N}$$

6 · 7 · 8 · 9 · ...
1 1 1 1

5 · 6 · 7 · 8 · ...
1 1 1 1

$$A = \{0:2:4:6:8\} \quad B = \{1:2:3:4:5:6\}$$

$$C = \{x \mid x \text{ es digito mayor que } 3\}$$

$$7 \notin B \quad \textcircled{F}$$

$$0 \in A \quad \checkmark$$

$$3 \notin C \quad \textcircled{\times} \quad \textcircled{\checkmark}$$

$$9 \notin C \quad F$$

$$8 \in A \quad \textcircled{\checkmark}$$

$$11 \notin A \quad \checkmark$$

$$5 \notin B \quad \textcircled{F}$$

$$8 \in B \quad \textcircled{F}$$

b)

$x \geq 3 \rightarrow 3 \in C$

Dado $A = \{4; \{5\}; 6; \{4; 5\}\}$

cardinal
→

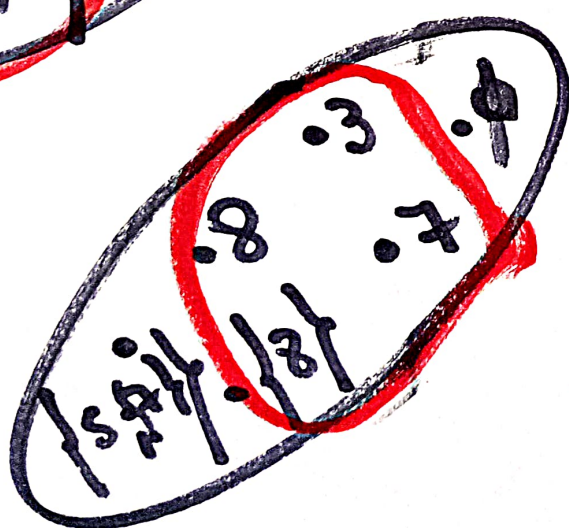
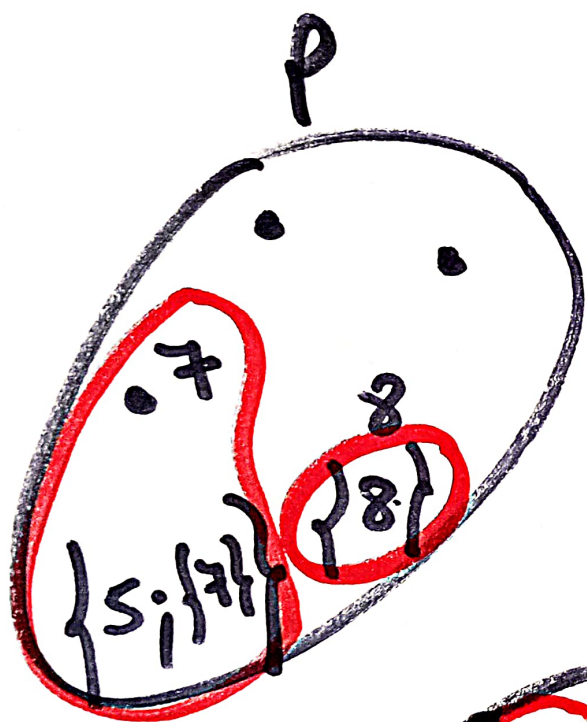
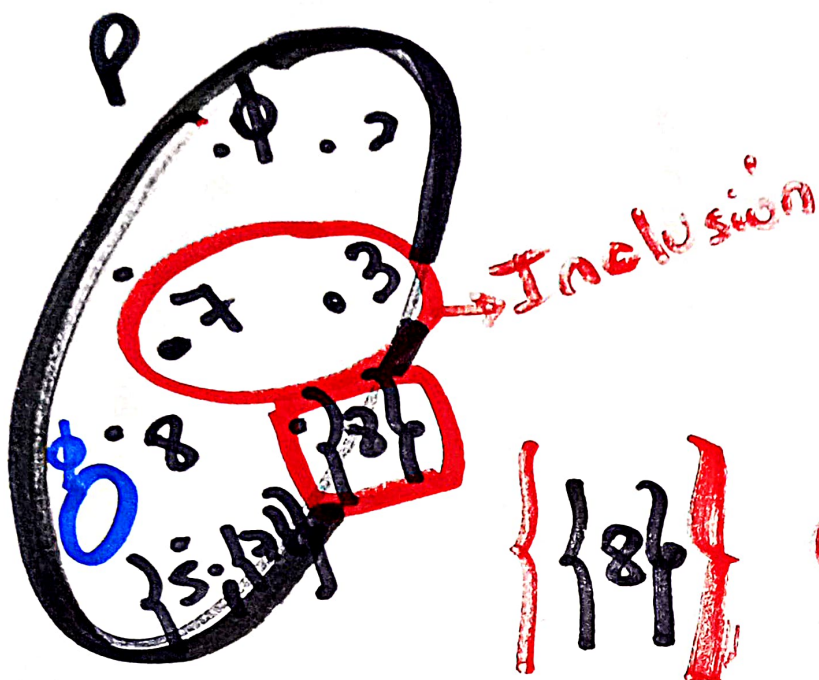
$A : 4$

→ cantidad de elementos

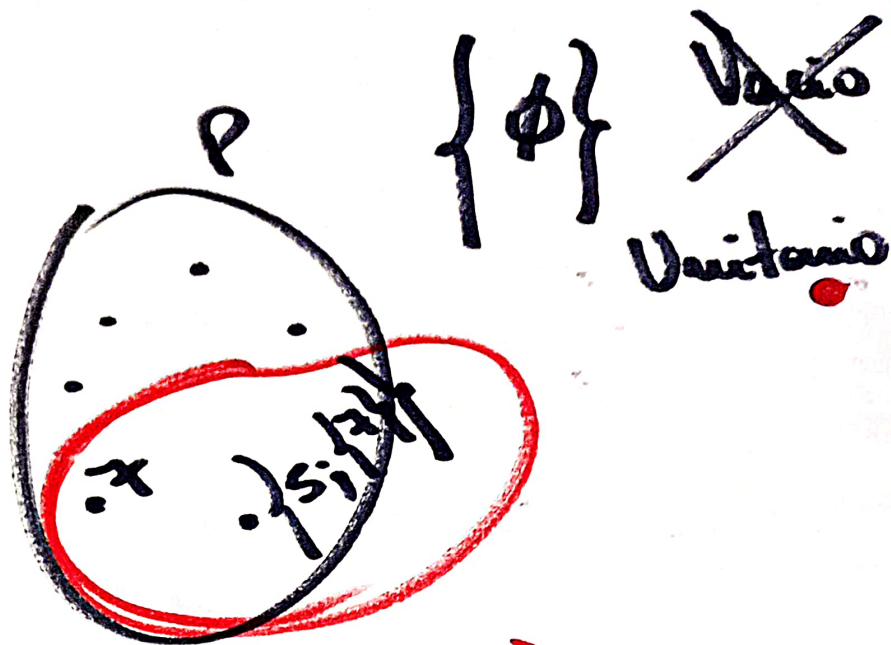


Ejemplos

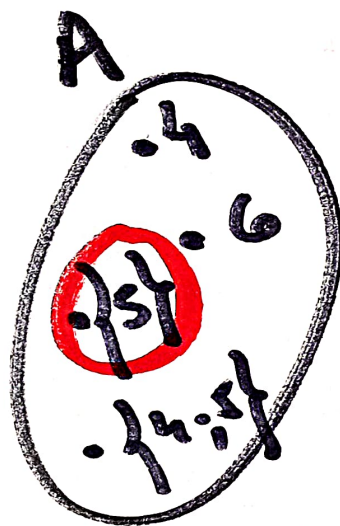
- $4 \in A$
- $5 \notin A$
- $\{5\} \in A$
- $\{\{5\}; 6\} \subset A$
- $\{4, 5\} \notin A$
- $\{4, 5\} \in A$
- $\{\{4, 5\}\} \subset A$
- $\{\{5\}; \{4, 5\}\} \subset A$



$\{3, 7, 8, \{8\}\} \subset P$



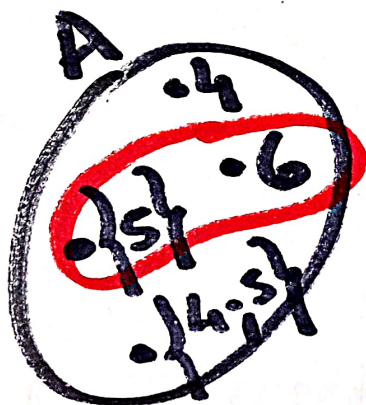
$$\{7; \{5; \{7\}\}\} \subset P$$



$$\{5\} \in A$$

$$\{\{5\}\} \subset A$$

$$\{\{5\}\} \subseteq A$$



$$\{\{5\}; 6\} \subset A$$

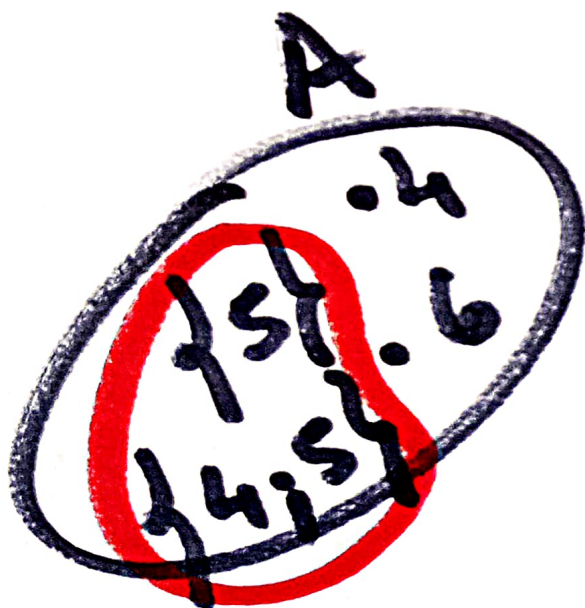
$$\{\{5\}; 6\} \subseteq A$$



$$\{4,5\} \in A$$

$$\{\{4,5\}\} \subset A$$

$$\{4,5\} \notin A$$



$$\{\{5\}; \{4,5\}\} \subset A$$

Indica si es

(V) si (F)

Sea $P = \{ \emptyset, \{3, 7, 8, \{2\}, \{5, \{7\}\}\} \}$
 $\#P = 6$

$\{7\} \subset P$ **F** $7 \in P$

$\{3, 7\} \subset P$ **V**

$\{3, 7\} \in P$ **F**

$5 \in P$ **F** $5 \notin P$

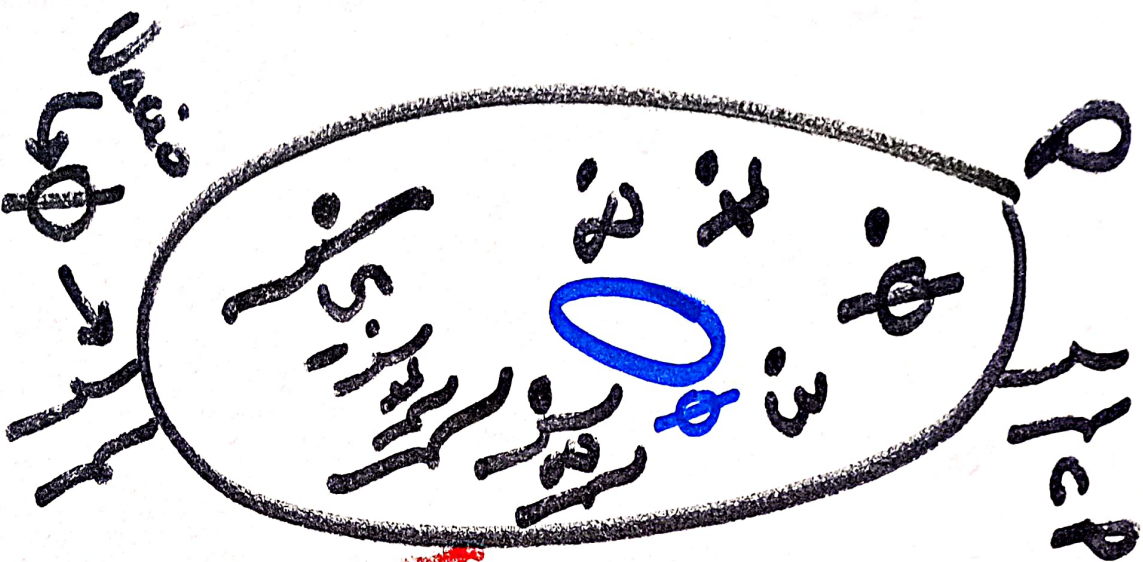
$\emptyset \in P$ **V**

$\emptyset \subset P$ **V**

$\{8\} \subset P$ **F** $\{8\} \in P$

$\{3\} \in P$ **V**

$8 \in P$ **V**



$\#P = 6$ **V**

$\{7, \{5, \{7\}\}\} \subset P$ **V**

$\{8\} \subset P$ **V**

$\{3, 5\} \subset P$ **F**

$\emptyset, \{2\} \subset P$ **V**

$\{3, 7, 8, \{2\}\} \notin P$ **F**

• Clase 1 \rightarrow 13/3 \rightarrow T. de Conj.

Clasif.
Relación $\begin{matrix} \nearrow E \\ \searrow C \end{matrix}$

Topo 1) Ejercin
 | 1) al 9) incluido.

Resolver para
el 20/3/26.

Dudas \rightarrow enviar
a Plataforma

• Clase 2 \rightarrow 20/3

Operaciones entre
conjuntos.