eë quareure  $f_i$  ( $i\in\mathcal{U}$ ) repubadrement  $\mathcal{U}$ . Donomiere, 470 Deceptoro repossible deux  $\Pi_i$   $f_i$  respecte shellenton as u.

- e Ucuoragueu repurque bédereurs Dre b: corrabueu elapererad  $f_{t,i}$ , codepramee b totalité organisation orogeneure  $f_{t,i}$ . Total  $f: I \longrightarrow f_{t,i}$  correcte u  $f_{t,i}$   $\subseteq U$   $=> U f_{t,i}$   $= U f_{t,i}$   $\subseteq U$
- $\prod_{i} f_{i} \stackrel{\text{det}}{:=} \left\{ q: I \longrightarrow \bigcup_{i \in I} f_{i} : q(i) \in f_{i} \right\} \left( \text{com } f_{i} = \emptyset \text{ The menoropose } i, \tau0 \right. \prod_{i} f_{i} = \emptyset \in \mathcal{U} \right)$
- I=  $\mathcal{U} \stackrel{(2)}{\Rightarrow} \{I\} \in \mathcal{U}$  . Paccumpus  $\mathcal{D}(\{I\} \times (\mathcal{P}(I \times Uf_i)) \times \{Uf_i\}) \in \mathcal{U}$ . Ho  $\varphi \in \{I\} \times (\mathcal{P}(I \times Uf_i)) \times \{Uf_i\}$   $Uf_i \in \mathcal{U} \stackrel{(2)}{\Rightarrow} \{Uf_i\} \in \mathcal{U}$   $=> \prod_i f_i \in \mathcal{U}$

Ynparrience 2

- (a) Dre Dannes yoursepayer U is objunction  $f\colon I \to b$  a discress opposerure  $I \in U$  homomore,
- 470 6 sodiumen Uf: estierce unomecroon us U.
  (5) Ponomure, 470 6 supodenum yunsepagna U nothino someway ychosus (5) ka coorde us (c) 2000 gypameure, a uz yoursur XEU Borrencer, 400 UXEU.

## Peuseure:

- (a) Doursaus 6 1
- (S) MEDROUMENCTE DONGSCHOL, DOMOMEN DOCTOPOROCE hyero boundueur general (a) a Dana correctiona figure  $f: a \rightarrow b$ , and a  $b \in \mathcal{U}$  . The note  $b \in \mathcal{U}$ , to  $x \in b = 7$   $\{x\} \in \mathcal{U} = 7$   $\{x \in b\} \in \mathcal{U}$ . Departure formula for  $a \rightarrow b$ , and  $a \in \mathcal{U}$  is  $a \rightarrow b$ . Sometime, 470 DEPART EDEPHATEL & U =7 APLANERAD YTO: U {K} = b & U.

Pyons xeU => {x}eU => } f: {x} → {x} => Ux = Ux ∈ U.