Proove the multiplication in $\mathbb N$ is an internal composition law. $\forall (x,y) \in \mathbb N, x*y \in \mathbb N \Rightarrow *$ is an ICL over $\mathbb N$

Proove that \circ is an ICL in G^G . $\forall (f,g) \in G^G, f \circ g : G \mapsto G$ $\Rightarrow \circ \text{ is an ICL over } G^G$

Proove the \cup , \cap are an ICL over P(E). $(\forall (A,B) \in P(E)^2, \forall x \in A \cap B \Rightarrow x \in E)$ $\Rightarrow A \cap B \in P(E)$

$$(\forall (A,B) \in P(E)^2, \forall x \in A \cup B \Rightarrow x \in E) \\ \Rightarrow A \cup B \in P(E)$$