$\leq_{\mathcal{H}\mathbf{P}} := \supseteq$

Lemma. $\mathcal{U}\mathbf{P}$ is a bounded lattice (??) with

$$\perp_{\mathcal{U}\mathbf{P}} := \mathbf{P}$$

 $\mathsf{T}_{\mathcal{U}\mathbf{P}} := \emptyset$

 $\vee_{\mathscr{U}\mathbf{P}}:=\cap$

 $\wedge_{9/\mathbf{P}} := \cup.$