

2°. If \mathfrak{F} is a join-semilattice then $\widehat{\mathfrak{F}}$ is a join-semilattice then and for any $\mathcal{A}, \mathcal{B} \in \widehat{\mathfrak{F}}$

$$\mathcal{A} \sqcup^{\widehat{\mathfrak{F}}} \mathcal{B} = \mathcal{A} \cap \mathcal{B}.$$

Under which conditions $a \setminus^* b$ and $a \# b$ are complementive to a ?
Generalize straight maps for arbitrary posets.