

Lemma. $\text{Hom}_{\text{DP}}(\textcolor{green}{A}; \textcolor{red}{B})$ is a bounded lattice with union \vee as join, intersection \wedge as meet, least upper bound $\top_{\textcolor{green}{A}, \textcolor{red}{B}}$ and greatest lower bound $\perp_{\textcolor{green}{A}, \textcolor{red}{B}}$.