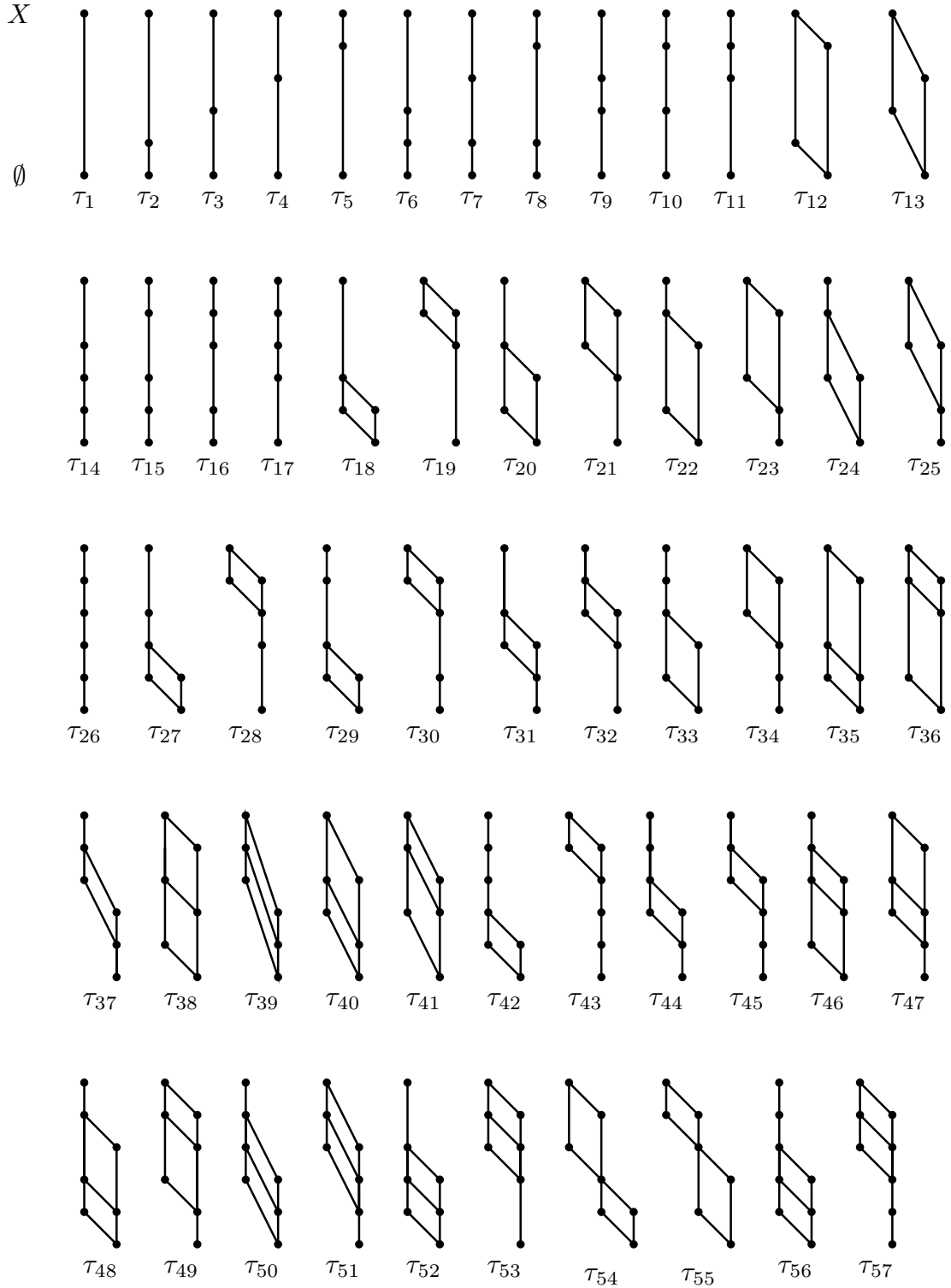
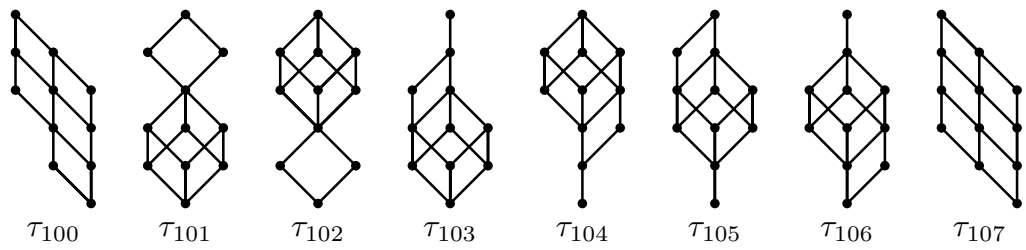
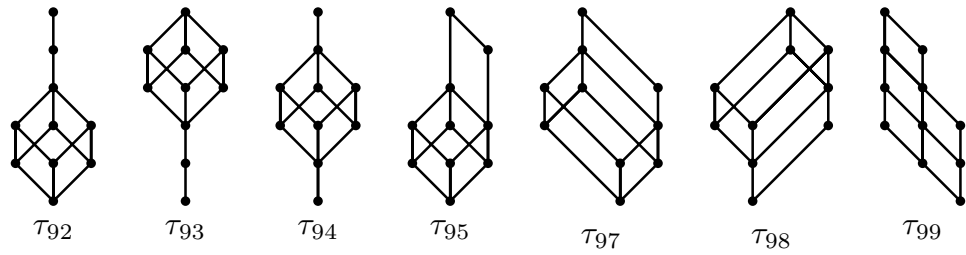
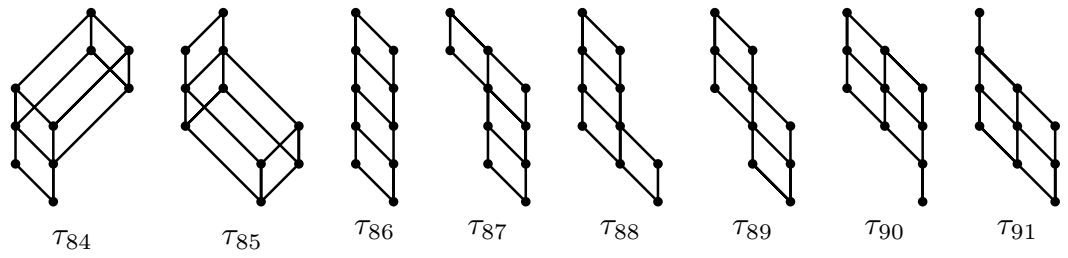
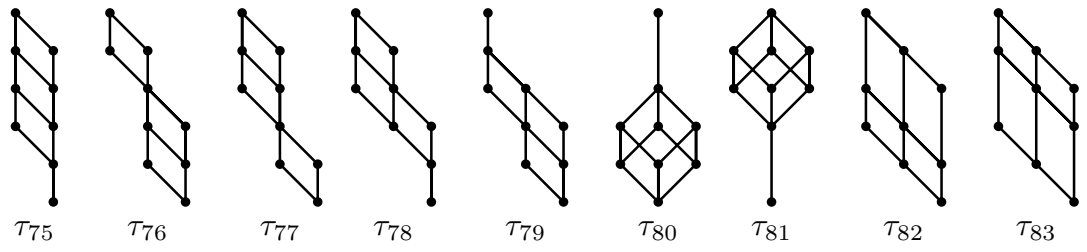
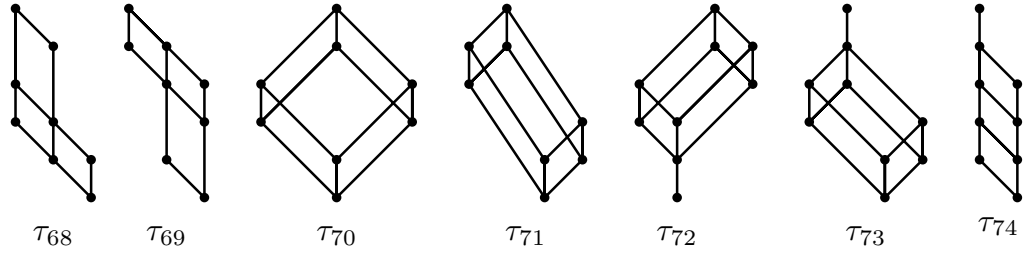
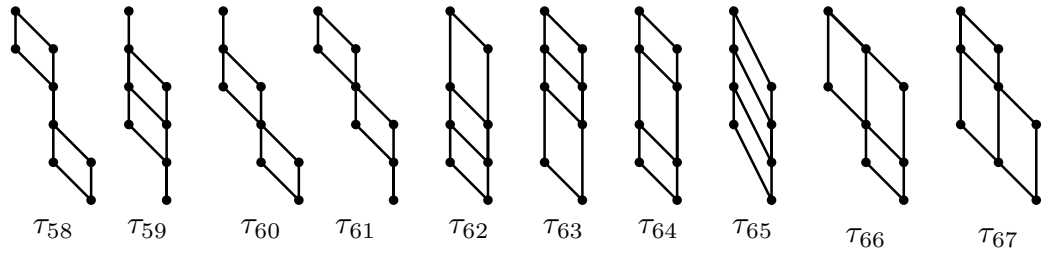


1. Draw the Hasse diagrams for all the 139 different topologies for a set of five elements  $X = \{a, b, c, d, e\}$ .

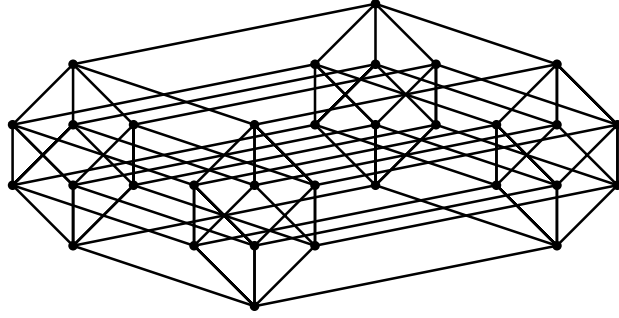
*Solution.*

For set of 5 elements, the Hasse diagrams of the 139 different topologies are:







 $\tau_{139}$