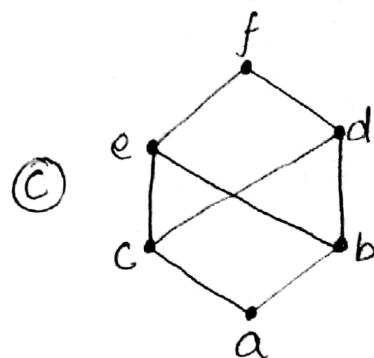
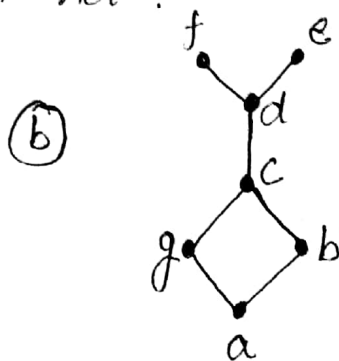
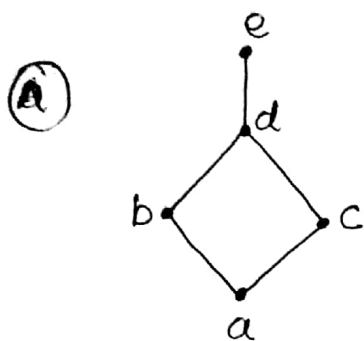


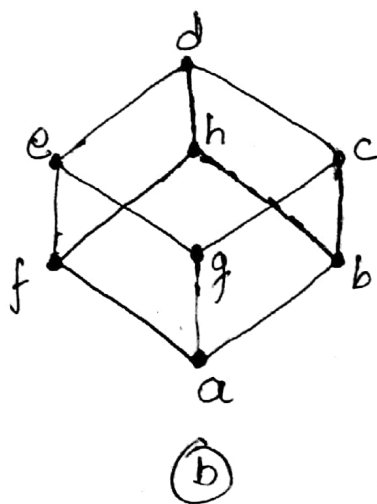
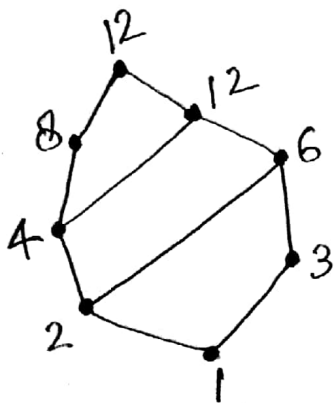
# Assignment - 3 (Lattice)

Q.1. Determine whether the following Hasse diagrams represent lattice or not:



Q.2. Define distributive lattice with example.

Q.3. Check whether the following lattice diagrams is complemented or distributive lattice



Q.4. Let  $A$  be the set of factors of a particular positive integer  $m$  and let  $\leq$  be the relation divides i.e.,  $\leq = \{(x, y) \mid x \in A \text{ and } y \in A \text{ and } x \text{ divides } y\}$ .

Draw the Hasse diag. for  $m=30$ .