* Poset
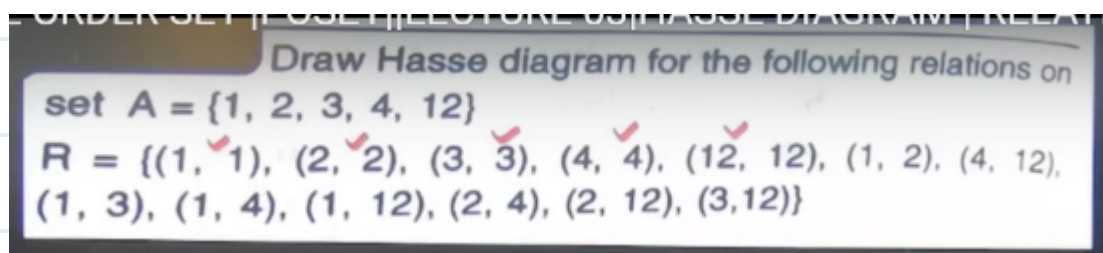
$$A = \{ (a,a), (b,b), (c,c), (a,b), (b,a) \}$$

Symmetry
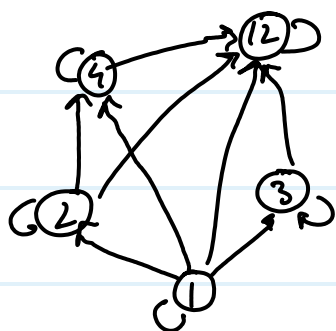
Reflexive : aRa (a,a, b,b, c,c)

Antisymetry : X

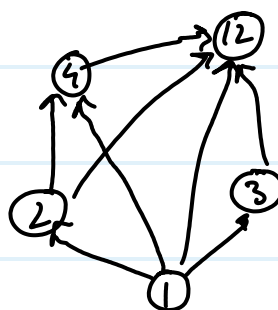# * Hasse Digraph

ORDER SET | POSET | LECTURE 03 | HASSE DIAGRAM | RELAT

Draw Hasse diagram for the following relations on

set A = {1, 2, 3, 4, 12}

R = {(1, 1), (2, 2), (3, 3), (4, 4), (12, 12), (1, 2), (4, 12), (1, 3), (1, 4), (1, 12), (2, 4), (2, 12), (3,12)}
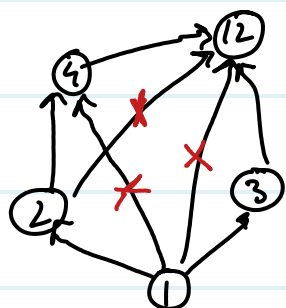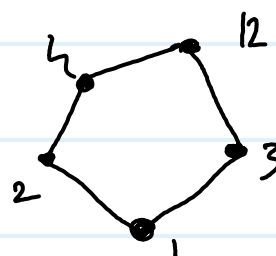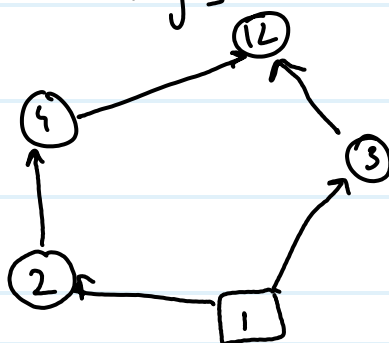
Step 1: Digraph

Step 2: Remove All self loops

Step 3: Remove Transitive edges

Step 4: Hasse diagram

* Lattice