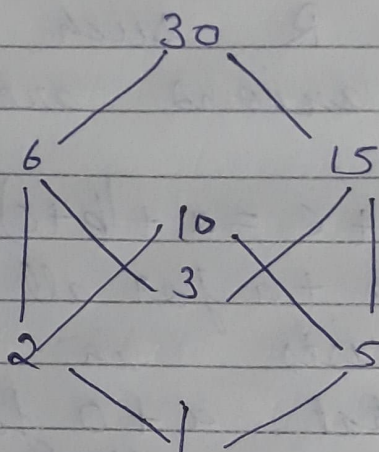


Section - 5

Q1 (i) Hasse diagram of D_{30} .



(ii) Given - The home team wins whenever it is raining
 q (conclusion) The home team wins
 p (hypothesis) - It is raining

Contrapositive - $\sim q \rightarrow \sim p$ is "if the home team does not win then it is not raining"

Converse - $q \rightarrow p$ is "if the home team wins then it is raining"

Inverse - $\sim p \rightarrow \sim q$ is "if it is not raining then the home team does not win!"