(1) If you miss the mid-term test, then you fail the course Let p = to you miss the mid-term test ( mark) q = fou pass the course. ag = for fail the course np = You do not miss the mid term test (1) P > q . If you miss the mid-term test, then you fail the course (I mank) (11) If you do not miss the mid-term test, then you pass the course = P > q. (12 mark) To Prove whether  $p \to \overline{q} \equiv \overline{p} \to q$ Using bouth table, if both results in tautology, then they are equivalent, otherwise, they are not Thus, the two propositions, are not equivalent.