







) Show the following equivalence.

1) P -> (Q VR) (P -> Q) V (P -> R) P (OVR)

IU, P F , S = F, R = F : PR(QVK) (P->R) V(P->R) FACED & TVT T => T : LUS = F. : P -> (Q VR) = F $T \rightarrow (QVR) = F$ T → (FVF) = F. : P = T, Q = F, R = F. .: RMS = (P > 8) V (P > R). $= (T \rightarrow F) \vee (T \rightarrow F)$ = FVF ACS (FREN) -- LHS = RHS Let, LHS = T. : P > (OVR) = T OB Q. P -> (QVP) - (P -> P) V(P -> P) 7PV(QUR) => (7PVQ)V(7PVR) 7PV QUR => 7P V Q V R