Propositional logic Set V of boolean variables turmula (atomic) Atomic Formula are all Formula

For overy formula F, 7F is a formula regation (efthour)

F, G are formulas disjunction] formulas FVG FAG Noning else is a fortiena. F V 76 CIVE LOS Q = CND (AVB) Vo(CAD) The follows.

assignent

 $A: \mathbf{D} \to \mathbf{T}$

Truth Jubles FAG FV6 (G) (A(F1G) E) | A (G) | A (FVG) through 16 ble a tomic for mula.

F = G iff A(F) = A(G)

Properties F142 G17 FV42 GVF (ommosinity (FAG) AH = FA (GAH) Associativity $F \wedge (G \vee H) = (F \wedge G) \vee (F \wedge H)$ $F \vee (G \wedge H) = (F \vee G) \wedge (F \vee H)$ Distribution 77 F : F Du-ble negation 7 (FN(9) = 7 FN76 De Muigan's Law