hild in S50 bof13.

GUODA CEVAN 3 D

1) Peropositional Logic:

A => Curla. 7

B => Drana goes to the Party.

C => Morico.

D=> Bouno.

(DVL) V (DNC) => 42

119 1 2 C > B => 43' . mail and of home

(AUD ACCUE) = PT matty some out larger of

y = D> TAF (TDN7A).

42= (DNC) V (DNC).

43 = C->B = 7CVB.

YA = A > 7B = \$7AY7B!

. (To 59 x 10 x 59 x 20 x 10)

To find whother the Postury will happen or Not The \$1 \$2,43 and \$44 Should Satisfy \$\phi\$. where \$\phi\$ (AVB) \(\Lambda\) (DUC).

*)
$$7D$$
 ? $(*) D, () > P_1$ *) $(*) D, () > P_2$ *) $(*) D, () D, () > P_2$ *) $(*) D, () D, () > P_2$ *) $(*) D, () D, () = P_2$ *) $(*) D, () D, () = P_2$ *) $(*) D, () D, () = P_2$ *) $(*) D, () D, () D, () = P_2$ *) $(*) D, () D, () D, () = P_2$ *) $(*) D, () D, ()$

which means the Party is over when one-Malo and female are Groing, the \$1,421,43,44

of is a dogical concequence of them.

CW11 42, 43, 104 KB).

The Porty will be there only & satisfie there in allow one interpretation that can continued.

CAN 62 V B3 VA VA VA B BLT).

The Considering Velements Conversit in a following indepenation A!=F; B!=T.; C!=T; D!=T. dogs cal is tous. So its satisfiable. For the above interaction of the sale is satisfiable. For the above interaction and is satisfiable. Here the party will be those. Only as certa does Not goes to the Yorta.

Scanned with CamScanner

(5) (1) Yz P(2) >> I (4) P(8). Formula: Rola Honal Logic: Strong the formula we are that in a Porty it esative frable. id at later kind . W= Zo & Zuchent, & The dogs cal contraints the party of build Chit) & E = Chit) A E = Chit)

 $\forall x = \forall q, ? => Equation ?s solvied.$

Jy Ply) > Vz. Plz). 3q= 4z => He possible.

(iii) Yx Yy · 4 (2,4) => 3x P(x). Pts. Not Possible.

(3) (A= CD(2)=> 384 (2,4)) V Z J b(A))-子工 子男、甲(ルンリ)。 9 to Not Parsible