$(\varphi), (\varphi)_{i,j}$ 91410 $\psi \rightarrow (\sim -) \neq \sim \phi \sim \sim)$ 9 -> (4 -> (~-> (pnyno) o If $\phi = T$ out $\psi = F$ the formule is folse, hence it is not servose. 2) 7A ((73 ((AD) -)A)) = 7A 13 1 (7CU 10 VA) = (7AN7BN7C) V (74 N 73 N 70) V (7AN7BN7C) V(7AV7BU70)

3.
$$\psi = (7A \vee B \vee C)$$

2. $A \times B \times C = F$

4. $A \times B \times C = F$

4. $A \times B \times F$

6. $A \times B \times F$

6. $A \times B \times F$

7. $A \times B \times F$

8. $A \times B \times F$

9. $A \times B \times F$

10. A

5) Coyyi

funtion: Color (x) = Color o 1100 SVert

to mole x petiete elge (x,y), flu i) on elge betveu a x on y used (x) : x is a male i) Dumy jrept: $\frac{1}{2} \times \frac{1}{2} \left(\frac{1}{2} \times \frac{1}{2}$ (i) Nox Colon

Hxy (queth (x,y) -> colon (x) + colon (y)) $\frac{1}{12} \times \frac{1}{12} \times \frac{1}{12}$

6 the politie were court-leaves-prents (count for short) is define follore, Count (t (-, mil, mil), 0). court (t(-,t(-,mil,mil),t(-,mil,mil)),1). count (t(_, mil, t(_, mil, n.l), 1). cout (t(-,t(-,me,me), me),1). Cosselle grape Bejie Court (E(-, L, R), N):-Court (L, NL), court (R, NR), N ==NC + NR $\mu(x):=\mu(x)$ (7) K(x) $\mathcal{N}(x)$ $\mu(x):=\mu(x)$ n(x) tem. loly N(x) SOFF met terminelle.