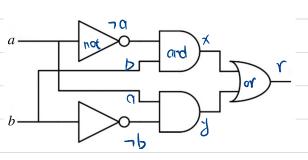
Cl-tutorial-8

Exercise 1.



(7a1b) V (a17b)

 $\chi \leftrightarrow (\neg \alpha \Lambda b)$ $(\neg \chi V + \alpha) \Lambda (\neg \chi V b) \Lambda (\alpha V - b V \chi)$ $\chi \leftrightarrow (\alpha \Lambda \gamma b) \Rightarrow (\neg \chi V \alpha) \Lambda (\neg \chi V + b) \Lambda (\neg \alpha V b V \chi)$ $\chi \leftrightarrow \chi V \chi \qquad (\neg \chi V \Gamma) \Lambda (\neg \chi V \Gamma) \Lambda (\neg \chi V \chi V \chi)$

fet r = 1 :

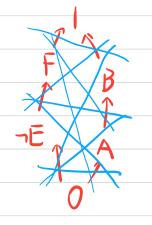
⇒ (¬χν¬α)Λ(¬χν b)Λ(αν¬bνχ)
Λ(¬γνα)Λ (¬γν¬b)Λ(¬ανbνγ)
Λ (χνγ)

Exercise 2

 $(EVF)\Lambda(\neg AVB)\LambdaC = (\neg E \rightarrow F)\Lambda(A \rightarrow B)\Lambda C$



No. of Schistying cissign invents = 6+6+6 = 18



l(b) =

Exercise 3

 $a \rightarrow b = 7a \vee b$.

$$B \times B \longrightarrow B = 7(B \wedge B) \vee B$$

$$a \times b = a \wedge b$$

