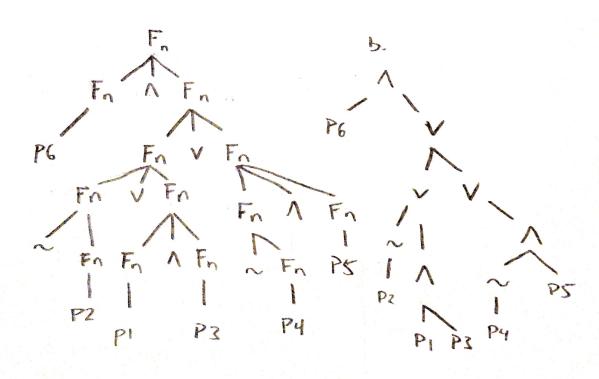
Aaron Knestout CISC 304 HWZ

1.
$$(\sim P3 \vee \sim (P2 \vee P1)) \wedge ((P2 \wedge \sim P3) \vee (\sim P3 \wedge \sim P2))$$

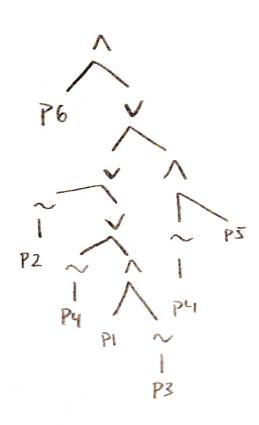
 $(\sim F \vee \sim (F \vee T)) \wedge ((F \wedge \sim F) \vee (\sim F \wedge \sim F))$
 $(T \vee (T \wedge F)) \wedge ((F \wedge T) \vee (T \wedge T))$
 $(T \vee F) \wedge (F \vee T)$
 $T \wedge T = T_{CVe}$

2. a



c. ~P4, ~p2 V P1, P6 A (~p2 V P1 A P3), (~p2 V P1 A P3) V ~ P4 A P5

d.



3.q.
$$Q = \sim (A \wedge B) \wedge \sim (A \vee B) \wedge C$$

 $Q = (\sim A \vee \sim B) \wedge (\sim A \wedge \sim B) \wedge C$

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