

Conversion to CNF

1. Replace $\varphi \Rightarrow \psi$ with $\neg(\varphi) \vee \psi$
2. a. Replace $\neg(\varphi \vee \psi)$ with $\neg(\varphi) \wedge \neg(\psi)$
b. Replace $\neg(\varphi \wedge \psi)$ with $\neg(\varphi) \vee \neg(\psi)$
3. Replace $\neg \neg \varphi$ with φ
4. Rewrite $\varphi_1 \vee (\varphi_2 \wedge \varphi_3)$ with $(\varphi_1 \vee \varphi_2) \wedge (\varphi_1 \vee \varphi_3)$

Removes all " \Rightarrow "

Pushes all " \neg " inward as far
as possible

" \neg " only in front of prop symbols