

$$C_{VAL} = A \wedge B$$

:: CNF

C :: Symb

'3

$$C \iff C_{VAL}$$

$$C \rightarrow C_{VAL}$$

AND  $C_{VAL} \rightarrow C$

$$\text{AND } \left. \begin{array}{l} \bar{C} \vee C_{VAL} \\ C_{VAL} \vee C \end{array} \right\} \begin{array}{l} 1) \\ 2) \end{array}$$

$$\left[ \begin{array}{l} 3 \quad 1-2 \\ -3 \quad -1 \quad 2 \end{array} \right]$$

$$A \rightarrow B \equiv \bar{A} \vee B$$

A	B	$A \rightarrow B$	$\bar{A} \vee B$
0	0	1	1
0	1	1	1
1	0	0	0
1	1	1	1

$$1) \bar{C} \vee \left[ \left( \overset{\vee}{\dots} \right) \wedge \left( \overset{\vee}{\dots} \right) \right]$$

$$\Rightarrow \left[ \left( \bar{C} \vee \overset{\vee}{\dots} \right) \overset{\text{AND}}{\wedge} \left( \bar{C} \vee \overset{\vee}{\dots} \right) \right]$$

$$2) C \vee \overline{C_{VAL}} \rightarrow \text{CNF}$$

$$\Rightarrow \left[ \left( C \vee \overset{\vee}{\dots} \right) \wedge \left( C \vee \overset{\vee}{\dots} \right) \right]$$

$$\boxed{1) \text{ CNF}} \quad \text{AND} \quad \boxed{2) \text{ CNF}}$$

still CNF ✓