

$$\textcircled{1} \quad X_{n_1, i, j} \wedge X_{n_2, k, l} \rightarrow Y_{n_1, n_2}$$

$$\bigwedge \neg X_{n_1, i, j} \vee \neg X_{n_2, k, l} \vee Y_{n_1, n_2}$$

$$0 \leq i, j \leq n$$

$$0 \leq k, l \leq n$$

$$0 \leq n_1, n_2 \leq n$$

$$\text{deg}[n_1] = 1 = \text{deg}[n_2]$$

$$(i, j) \in \text{Vois}(k, l)$$

$$\textcircled{2} \quad X_{n_1, i, j} \wedge X_{n_2, k, l} \rightarrow \underbrace{\neg Y_{n_1, n_2}}$$

$$\bigwedge \neg X_{n_1, i, j} \vee \neg X_{n_2, k, l} \vee \neg Y_{n_1, n_2}$$

$$0 \leq i, j \leq n$$

$$0 \leq k, l \leq n$$

$$0 \leq n_1, n_2 \leq n$$

$$\text{deg}[n_1] = 0 = \text{deg}[n_2] \text{ or }$$

$$\text{deg}[n_1] = 0 \text{ \& } \text{deg}[n_2] = 1 \text{ or }$$

$$\text{deg}[n_1] = 1 \text{ \& } \text{deg}[n_2] = 0$$

$$(i, j) \in \text{Vois}(k, l)$$