Chapter 8, slide 32

$$\Sigma = \{p_1, p_2, p_3\}$$

$$\Delta = \{\{\neg p_1, \neg p_2\}, \{p_2, \neg p_3\}\}$$

$$RC(\Delta) = \{\{\neg p_2, \neg p_3\}\}$$

1. $p_1 := 1$ ✓
2. ~~$p_2 := 1$~~ ; $p_2 := 0$ ✓
3. ~~$p_3 := 1$~~ ; $p_3 := 0$ ✓ succeed!

Chapter 8, slide 33

$$\Delta' = \Delta \cup \{\{\neg p_1, p_2\}\} \quad \forall RC(\Delta')$$

1. $p_1 := 1$ ✓
2. ~~$p_2 := 1$~~ ; ~~$p_2 := 0$~~ ; fail!

$C_{(a)} = \{\neg p_1, \neg p_2\}$; $C_{(4)} = \{\neg p_1, p_2\}$

$C_{(a,4)} = \{\neg p_1\}$ ↯

Chapter 9, slide 15

$$\Delta = \{\{P, Q, \neg R\}, \{\neg P, \neg Q\}, \{R\}, \{P, \neg Q\}\}$$

1. UP Rule: $R \mapsto 1$

$$\{\{P, Q\}, \{\neg P, \neg Q\}, \{P, \neg Q\}\}$$

2. Splitting Rule:

2a. $P \mapsto 0$

$\{\{Q\}, \{\neg Q\}\}$

3a. UP Rule

$\{\square\}$

2b. $P \mapsto 1$

$\{\{\neg Q\}\}$

3c. UP Rule: $Q \mapsto 0$

$\{\}$

Chapter 9, slide 24

$\Delta = \{\{\neg Q, \neg P\}, \{P, Q, \neg R, \neg S\}, \{Q, \neg S\}, \{R, \neg S\}, \{S\}\}$