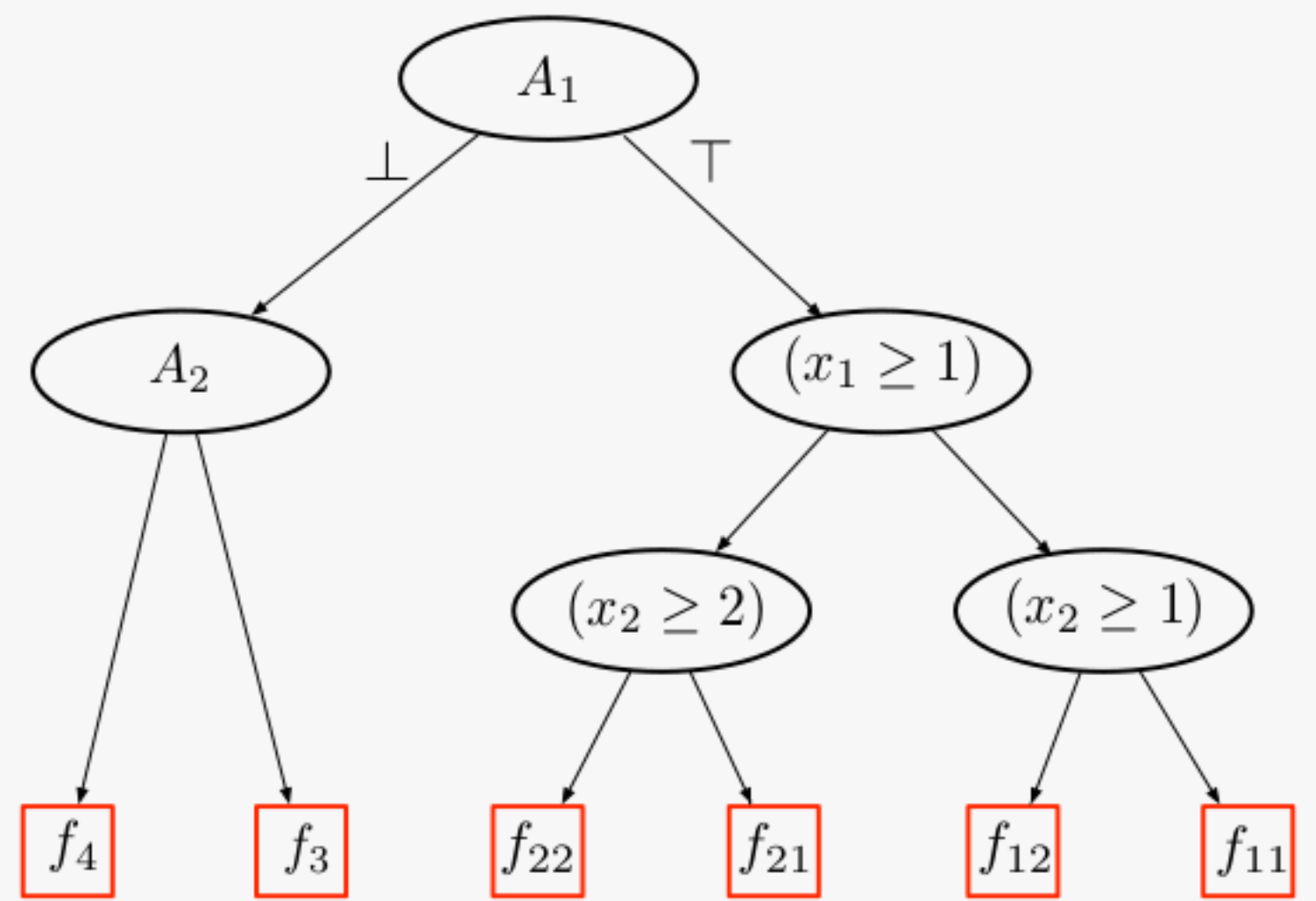
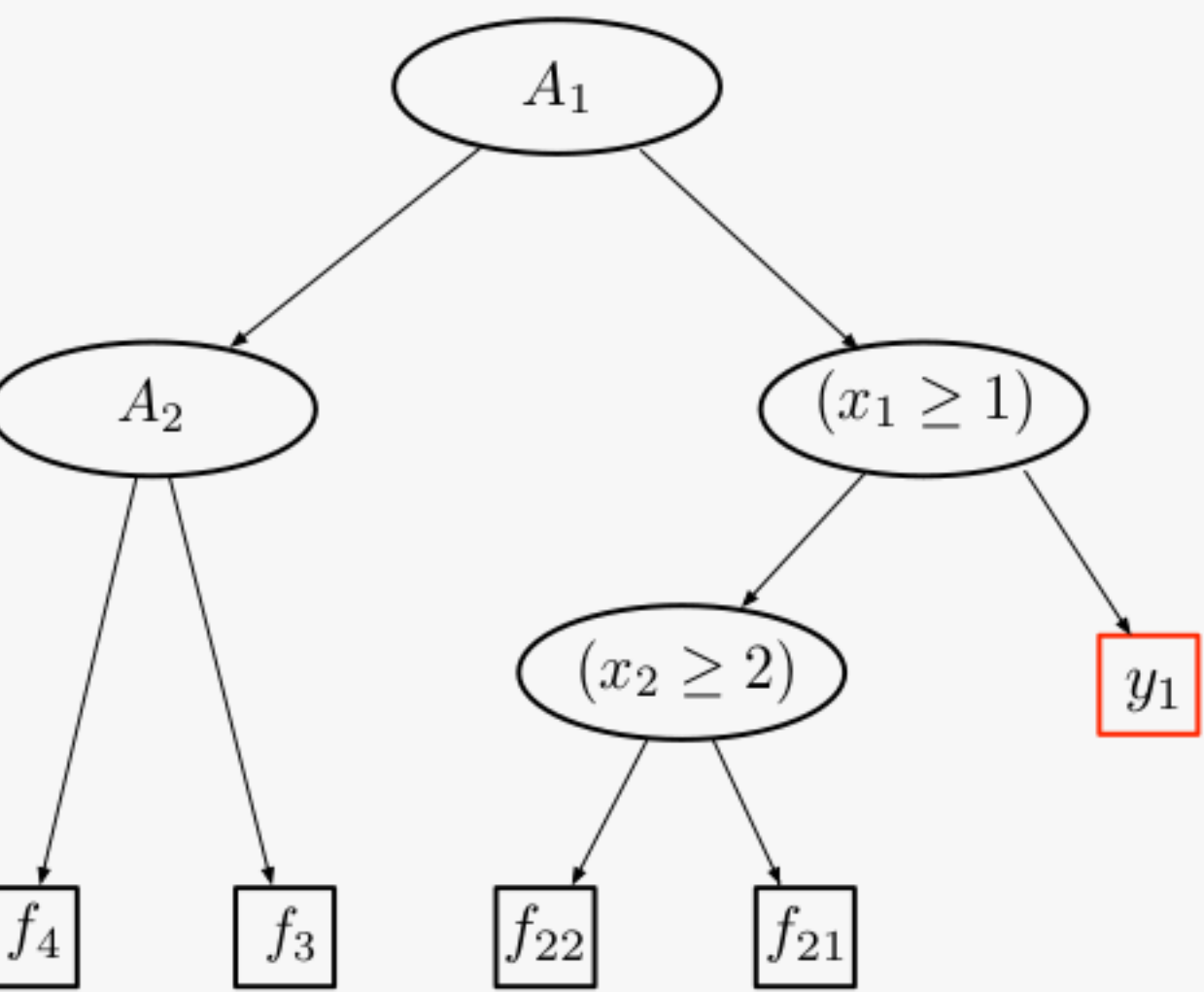
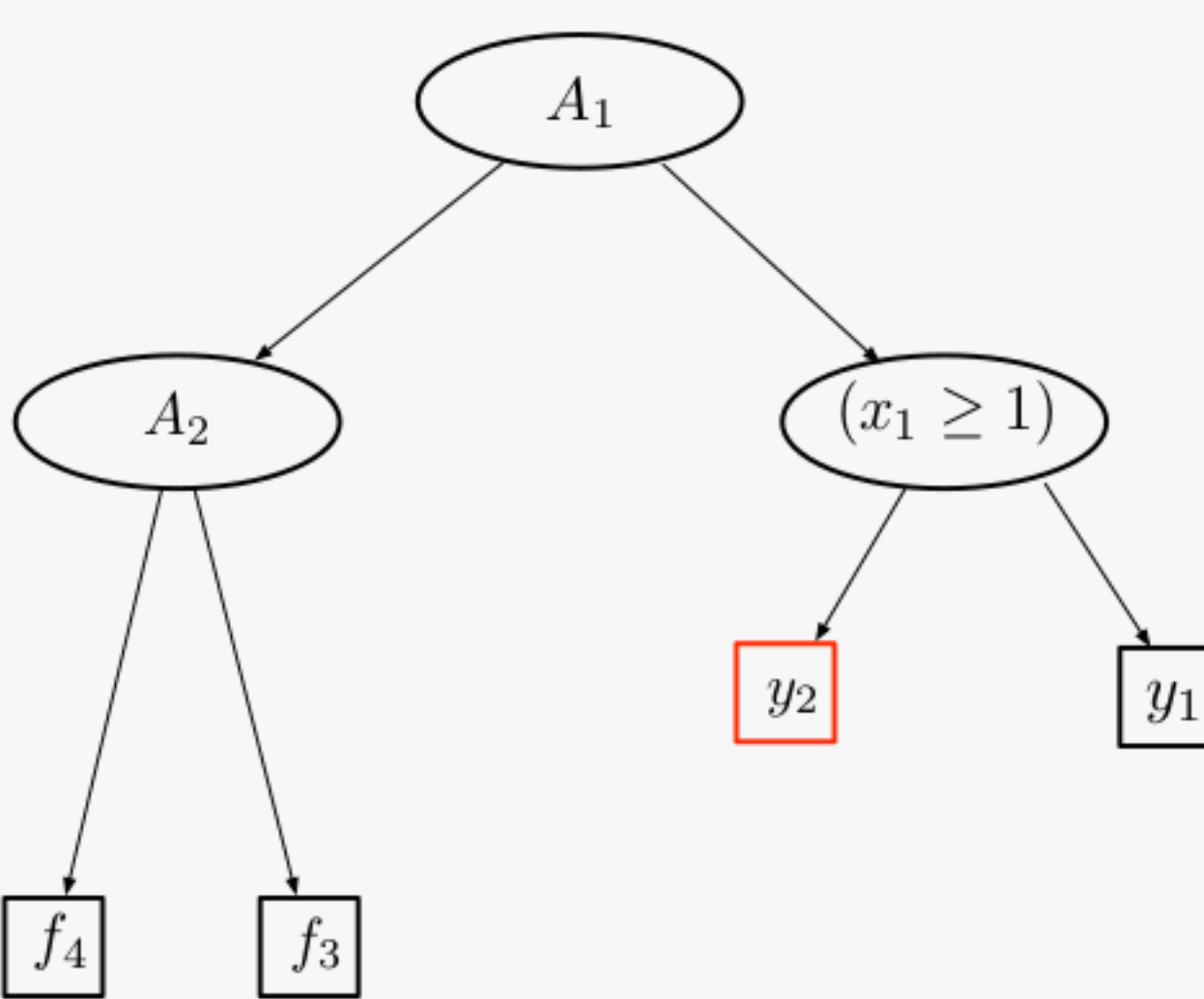


**a** $w(\mathbf{x}, \mathbf{A})$ **b**

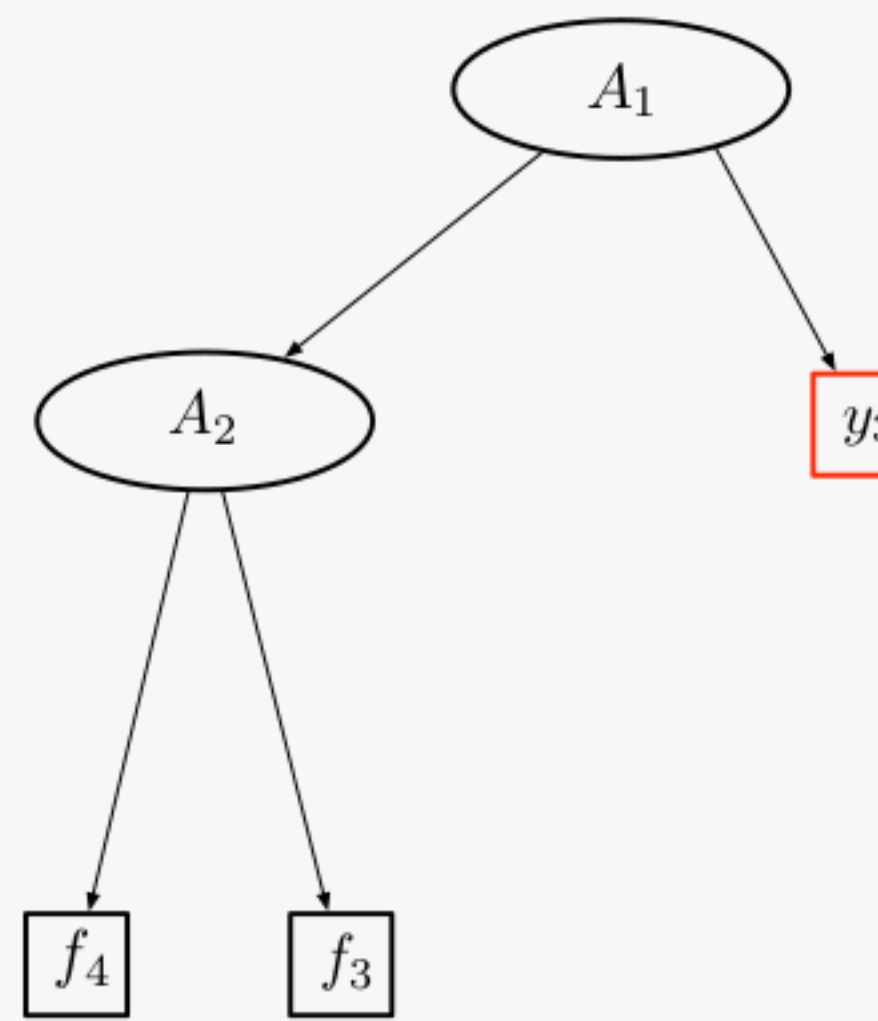
$$\begin{aligned}
 &(\neg A_1 \vee \neg(x_1 \geq 1) \vee \neg(x_2 \geq 1) \vee (y_1 = f_{11})) \\
 &\wedge (\neg A_1 \vee \neg(x_1 \geq 1) \vee (x_2 \geq 1) \vee (y_1 = f_{12})) \\
 &\wedge (\neg A_1 \vee \neg(x_1 \geq 1) \vee \neg(y_1 = f_{11}) \vee \neg(y_1 = f_{12}))
 \end{aligned}$$

**c**

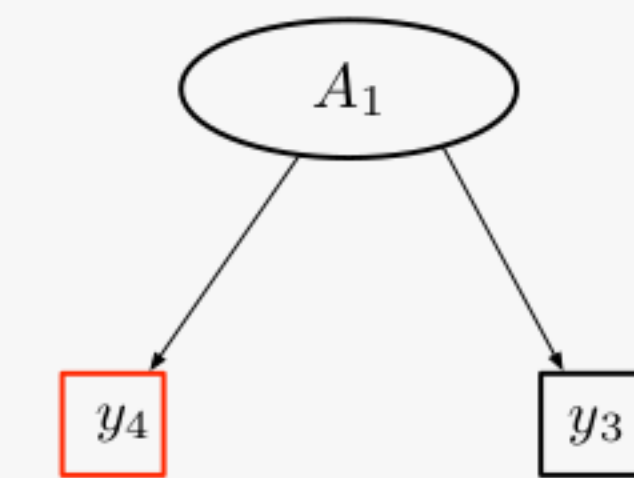
$$\begin{aligned}
 &(\neg A_1 \vee (x_1 \geq 1) \vee \neg(x_2 \geq 2) \vee (y_2 = f_{21})) \\
 &\wedge (\neg A_1 \vee (x_1 \geq 1) \vee (x_2 \geq 2) \vee (y_2 = f_{22})) \\
 &\wedge (\neg A_1 \vee (x_1 \geq 1) \vee \neg(y_2 = f_{21}) \vee \neg(y_2 = f_{22}))
 \end{aligned}$$

**d**

$$\begin{aligned}
 &(\neg A_1 \vee \neg(x_1 \geq 1) \vee (y_3 = y_1)) \\
 &\wedge (\neg A_1 \vee (x_1 \geq 1) \vee (y_3 = y_2)) \\
 &\wedge (\neg A_1 \vee \neg(y_3 = y_1) \vee \neg(y_3 = y_2))
 \end{aligned}$$

**e**

$$\begin{aligned}
 &(A_1 \vee \neg A_2 \vee (y_4 = f_3)) \\
 &\wedge (A_1 \vee A_2 \vee (y_4 = f_4)) \\
 &\wedge (A_1 \vee \neg(y_4 = f_3) \vee \neg(y_4 = f_4))
 \end{aligned}$$

**f**

$$\begin{aligned}
 &(\neg A_1 \vee (y_5 = y_3)) \wedge (A_1 \vee (y_5 = y_4)) \\
 &\wedge (\neg(y_5 = y_3) \vee \neg(y_5 = y_4))
 \end{aligned}$$

 $y_5$ **g**

$$(y = y_5)$$