$$\frac{\begin{array}{c}\mathrm{Telephone}(\mathrm{Mary}) = \mathrm{Telephone}(\mathrm{Mike}) \\ \mathrm{Dialed}(\mathrm{Pat}, \mathrm{Telephone}(\mathrm{Mike}))\end{array}}{\mathrm{Dialed}(\mathrm{Pat}, \mathrm{Telephone}(\mathrm{Mary}))}$$

$$\frac{\begin{array}{c}\text{Telephone(Mary)} = \text{Telephone(Mike)}\\ \text{Dialed(Pat, Telephone(Mike))}\end{array}}{\text{Dialed(Pat, Telephone(Mary))}}$$

$$\frac{\begin{array}{c}\text{Telephone(Mary)} = \text{Telephone(Mike)}\\ \text{Knew(Pat, Telephone(Mike))}\end{array}}{\text{Knew(Pat, Telephone(Mary))}} \qquad \times$$

Bit(Fido, John)

Believed(Lucy, Bit(Rover, John))

Said(Lucy, “John bit Rover”)

$$\underset{T}{Man(Pat)} \;\vee\; \underset{T}{Woman(Pat)} \;\vee\; \underset{T}{Robot(Pat)}$$

$$\begin{array}{ccccc} Man(Pat) & \vee & Woman(Pat) & \vee & Robot(Pat) \\ T & & T & & T \end{array}$$

$$\begin{array}{ccccc} Man(Pat) & \oplus & Woman(Pat) & \oplus & Robot(Pat) \\ T & & T & & T \\ \hline & F & & & T \\ \hline & & T & & \end{array}$$

$$\begin{array}{ccccc} Man(Pat) & \vee & Woman(Pat) & \vee & Robot(Pat) \\ T & & T & & T \end{array}$$

$$\begin{array}{ccccc} Man(Pat) & \oplus & Woman(Pat) & \oplus & Robot(Pat) \\ T & & T & & T \\ \hline & F & & & T \\ \hline & & T & & \end{array}$$

$$andor(i, j)\{P_1, \ldots, P_n\}$$

$$\begin{array}{ccccc} Man(Pat) & \vee & Woman(Pat) & \vee & Robot(Pat) \\ T & & T & & T \end{array}$$

$$\begin{array}{ccccc} Man(Pat) & \oplus & Woman(Pat) & \oplus & Robot(Pat) \\ T & & T & & T \\ \hline & F & & & T \\ \hline & & T & & \end{array}$$

$$andor(i,j)\{P_1, \ldots, P_n\}$$

$$andor(1,1)\{Man(Pat), Woman(Pat), Robot(Pat)\}$$