$$\begin{array}{c} (\phi \wedge \psi)_{\mathbb{T}} \\ | \\ \phi_{\mathbb{T}} \\ | \\ \psi_{\mathbb{T}} \end{array} \qquad \begin{array}{c} (\phi \wedge \psi)_{\mathbb{F}} \\ \diagup\diagdown \\ \phi_{\mathbb{F}} \quad \psi_{\mathbb{F}} \end{array}$$

$$\begin{array}{c} (\phi \vee \psi)_{\mathbb{T}} \\ \diagup\diagdown \\ \phi_{\mathbb{T}} \quad \psi_{\mathbb{T}} \end{array} \qquad \begin{array}{c} (\phi \vee \psi)_{\mathbb{F}} \\ | \\ \phi_{\mathbb{F}} \\ | \\ \psi_{\mathbb{F}} \end{array}$$

$$\begin{array}{c} (\neg\phi)_{\mathbb{T}} \\ | \\ \phi_{\mathbb{F}} \end{array} \qquad \begin{array}{c} (\neg\phi)_{\mathbb{F}} \\ | \\ \phi_{\mathbb{T}} \end{array}$$

$$\begin{array}{c} (\forall x.\phi(x))_{\mathbb{T}} \\ | \\ \phi(n)_{\mathbb{T}} \end{array} \qquad \begin{array}{c} (\exists x.\phi(x))_{\mathbb{F}} \\ | \\ \phi(n)_{\mathbb{F}} \end{array}$$

$$\begin{array}{c} (\forall x.\phi(x))_{\mathbb{F}} \\ | \\ \phi(n_{\text{fresh}})_{\mathbb{F}} \end{array} \qquad \begin{array}{c} (\exists x.\phi(x))_{\mathbb{T}} \\ | \\ \phi(n_{\text{fresh}})_{\mathbb{T}} \end{array}$$

$$\begin{array}{c} (\forall x.\neg P(x) \vee (\exists y.P(y)))_{\mathbb{F}} \\ | \\ (\neg P(n_1) \vee (\exists y.P(y)))_{\mathbb{F}} \\ | \\ (\neg P(n_1))_{\mathbb{F}} \\ | \\ (\exists y.P(y))_{\mathbb{F}} \\ | \\ P(n_1)_{\mathbb{T}} \\ | \\ P(n_1)_{\mathbb{F}} \\ | \\ \times \end{array}$$