

This is a test.

$$\forall x . P(x) \Leftrightarrow \forall x . P(x) \Leftrightarrow \exists x . P(x)$$

$$x \# y \quad \Leftrightarrow \quad x \oplus y$$

$$Q^{\forall x . P(x)} \Leftrightarrow Q^{\forall x . P(x)} \Leftrightarrow Q^{\exists x . P(x)}$$

$$Q^{x \# y} \quad \Leftrightarrow \quad Q^{x \oplus y}$$

$$Q^{R^{\forall x . P(x)}} \Leftrightarrow Q^{R^{\forall x . P(x)}} \Leftrightarrow Q^{R^{\exists x . P(x)}}$$

$$Q^{R^{x \# y}} \quad \Leftrightarrow \quad Q^{R^{x \oplus y}}$$