

$$\neg \left(\left(\forall x \right) \left(\exists y \right) P(x, y) \rightarrow \left(\exists x \right) \left(\exists y \right) R(x, y) \right) \wedge \left(\forall x \right) \neg \left(\exists y \right) Q(x, y)$$

$$\neg \left(\left(\forall x_1 \right) \left(\exists y_1 \right) P(x_1, y_1) \rightarrow \left(\exists x_2 \right) \left(\exists y_2 \right) R(x_2, y_2) \right) \wedge \left(\forall x_3 \right) \neg \left(\exists y_3 \right) Q(x_3, y_3)$$

$$\neg \left(\left(\exists x_1 \right) \left(\forall y_1 \right) \left(P(x_1, y_1) \rightarrow \left(\exists x_2 \right) \left(\exists y_2 \right) R(x_2, y_2) \right) \right) \wedge \left(\forall x_3 \right) \neg \left(\exists y_3 \right) Q(x_3, y_3)$$

$$\left(\forall x_1 \right) \left(\exists y_1 \right) \left(\forall x_2 \right) \left(\forall y_2 \right) \left(P(x_1, y_1) \rightarrow R(x_2, y_2) \right) \wedge \left(\forall x_3 \right) \left(\forall y_3 \right) \neg Q(x_3, y_3)$$

$$\left(\forall x_1 \right) \left(\exists y_1 \right) \left(\forall x_2 \right) \left(\forall y_2 \right) \left(\forall x_3 \right) \left(\forall y_3 \right) \left(P(x_1, y_1) \rightarrow R(x_2, y_2) \right) \wedge \neg Q(x_3, y_3)$$

$$\left(\forall x_1 \right) \left(\forall x_2 \right) \left(\forall y_2 \right) \left(\forall x_3 \right) \left(\forall y_3 \right) \left(P(x_1, f(x_1)) \rightarrow R(x_2, y_2) \right) \wedge \neg Q(x_3, y_3)$$

mové $f(x_1)$ za y_1