Name:

Last quiz, you proved the predicate wff

$$(\forall y)\,[Q(x,y) \to P(x)] \longrightarrow [(\exists y)\,Q(x,y) \to P(x)]$$

Every student who proved it did so directly.

1. (6 pts) **Prove it by contraposition.**

2. (4 pts) Prove
$$(\forall y)\,[Q(x,y) \to P(x)] \longrightarrow [(\exists y)\,Q(x,y) \to P(x)]$$
by contradiction.