¬ ∧ ∨ → [≡](https://en.wikipedia.org/wiki/%E2%89%A1_(disambiguation)) ≢

Ɐ ∃

1. F ∨ Q [≡](https://en.wikipedia.org/wiki/%E2%89%A1_(disambiguation)) ¬(¬Q ∧ ¬F)

By deMorgen’s, ¬(¬Q ∧ ¬F) [≡](https://en.wikipedia.org/wiki/%E2%89%A1_(disambiguation)) Q ∨ F  
 By commutativity, Q ∨ F [≡](https://en.wikipedia.org/wiki/%E2%89%A1_(disambiguation)) F ∨ Q

1. Ɐx∃y(P(x) ∧ Q(y)) ≢ ∃u∃v(P(v) ∧ Q(u))