Inference

- Universal Instantiation: $\forall v : f(v) \models f(g) : \{v/g\}$ (replacement)
- Existential Instantiation: $\exists v : f(v) \models f(C) : \{v/C\}$
 - introduce new constant or new constant function $\forall x \exists y : f(x, y) \models f(x, F(x))$
- Unification: $f(x, C) | f(A, y) = \{x/A, y/C\}$
- Most general unifier

Resolution in first order logics

- Eliminate biconditionals and implications
- Apply De Morgan rules
- Standardize apart variables
- Skolemize all existential instantion
- Drop universal quantifiers
- To CNFs
- Resolution by instantiation