

# Lecture 5: Inference in First-Order Logic (Resolution)

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April 18, 2019

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## 1 Resolution in Propositional Logic

The resolution inference rule for propositional logic derives a new clause from two clauses. See the example of resolution below:

$$\frac{p_{1,1} \vee p_{3,1}, p_{1,1} \vee p_{2,2}}{p_{3,1} \vee p_{2,2}} \quad (1)$$