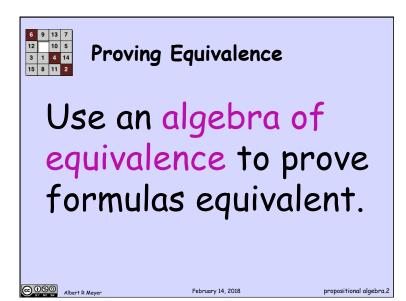


Propositional Algebra

Albert R Mever

February 14, 2018

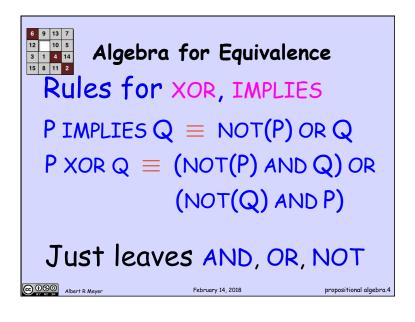
propositional algebra.1

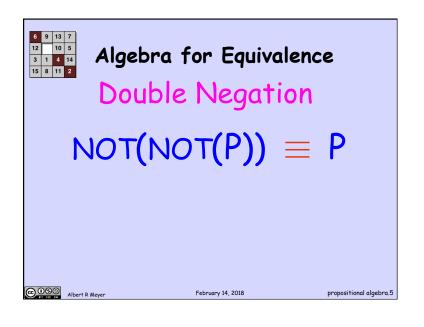


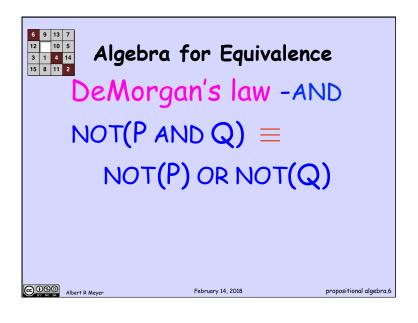
Strategy: Convert to DNF

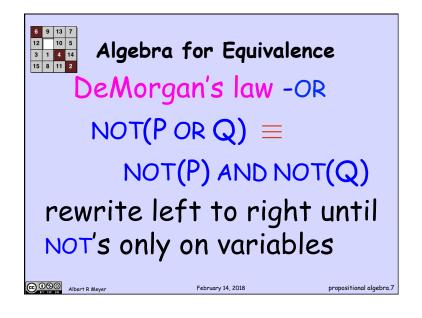
Come up with enough equivalence rules to convert any formula to an equivalent Full DNF.

Two formulas are equiv when convert to same Full DNF.

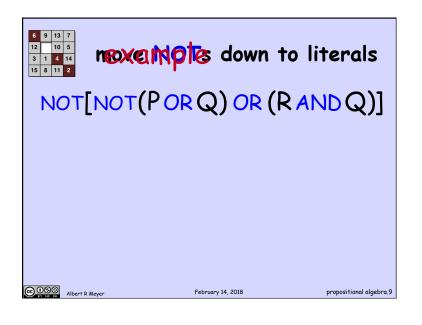


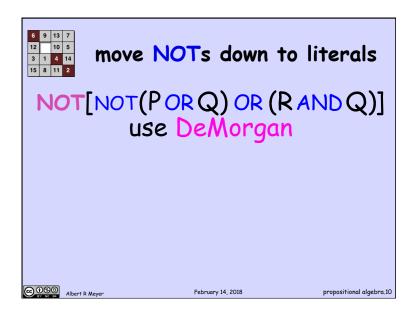


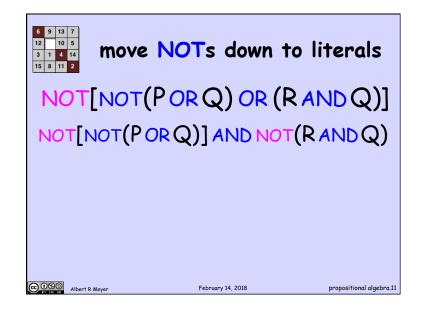


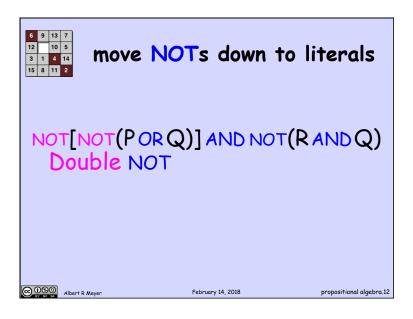


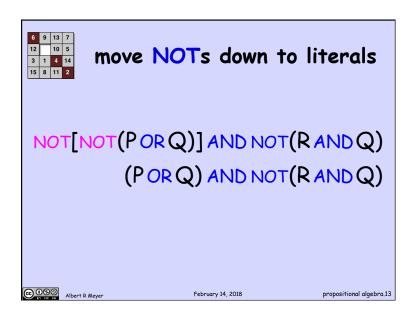


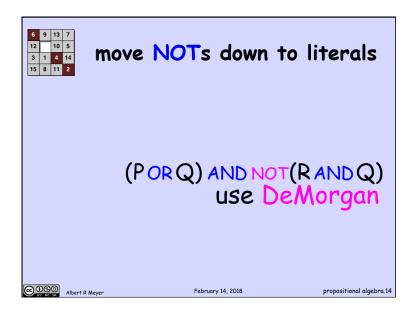


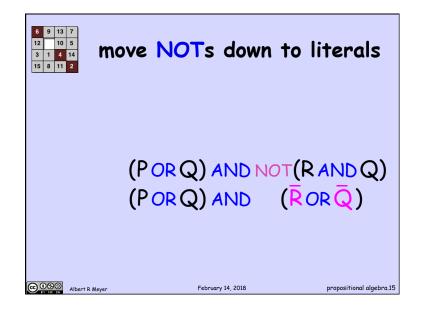


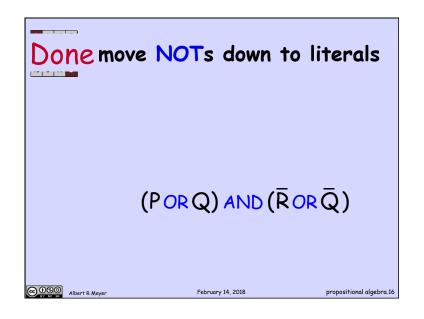


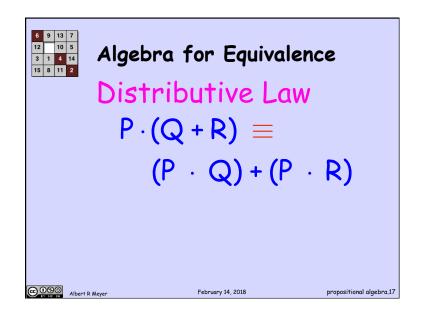


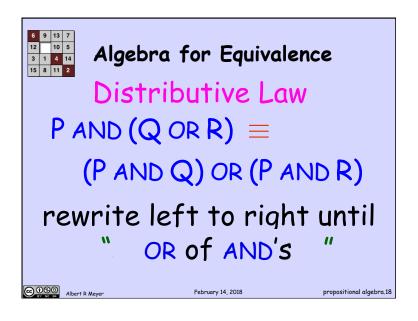


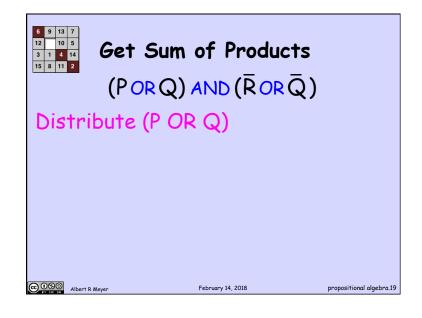


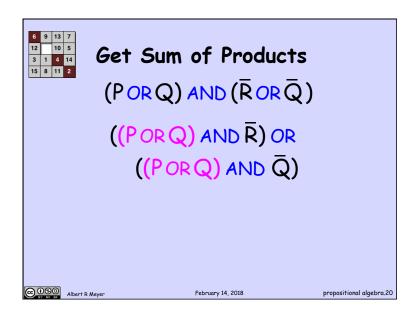


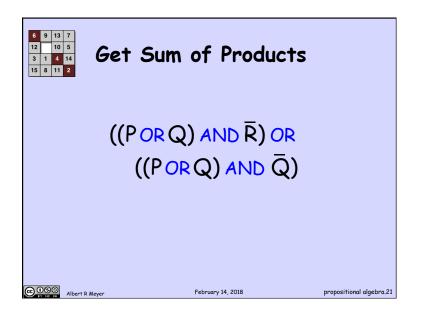


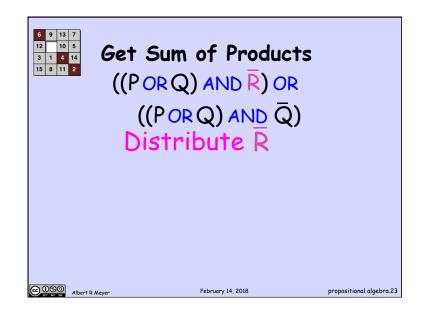


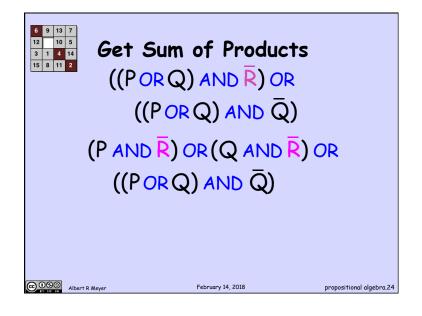


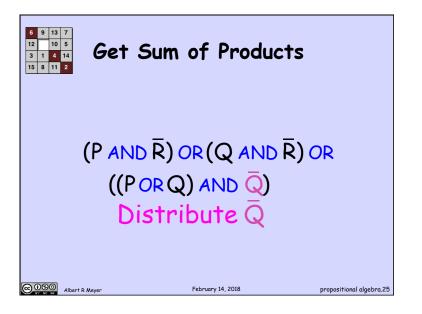


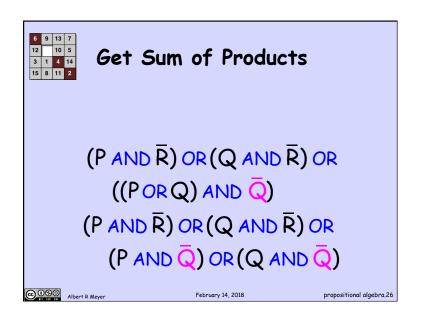


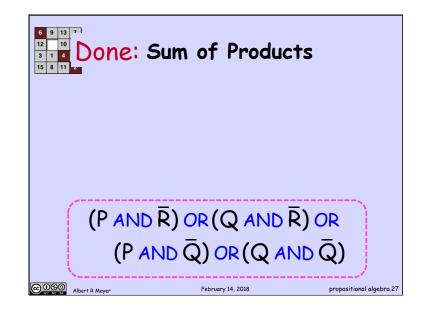


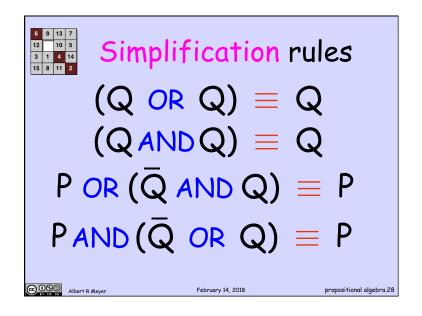


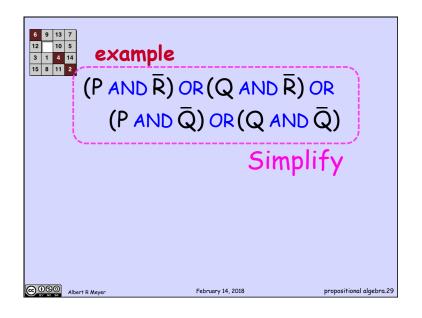


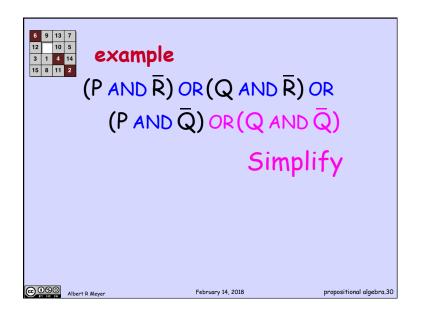


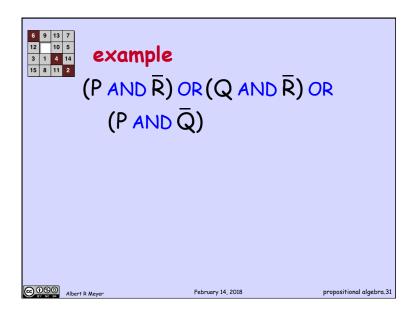


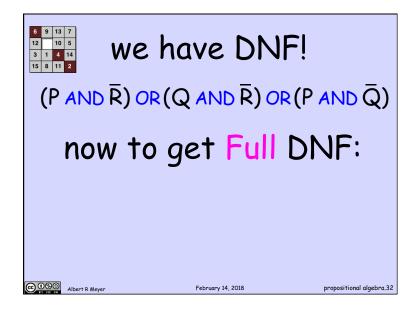


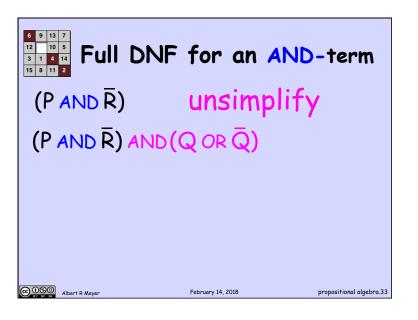


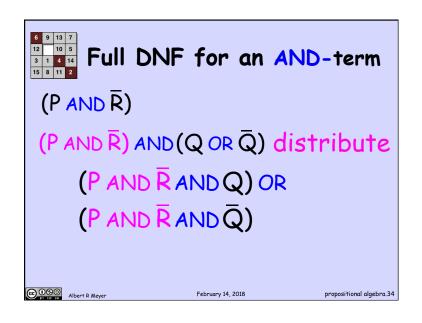


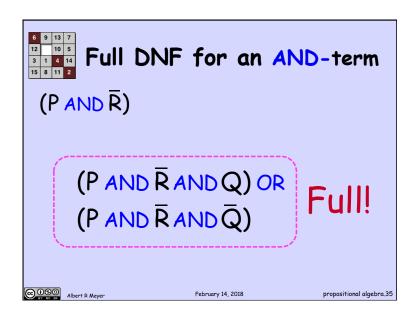


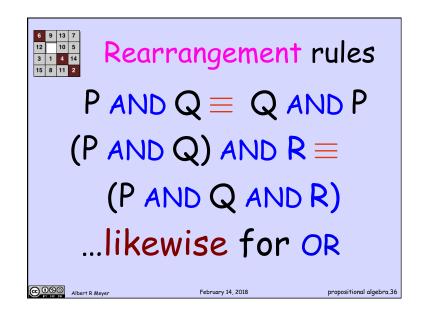


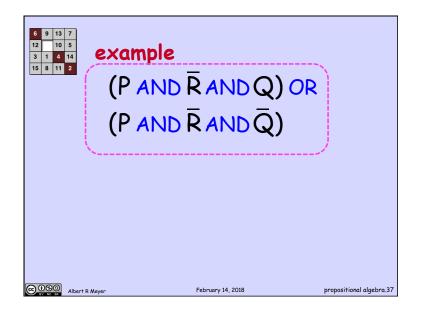


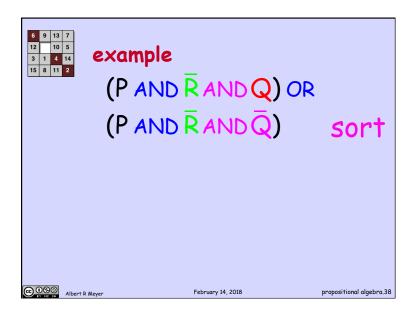


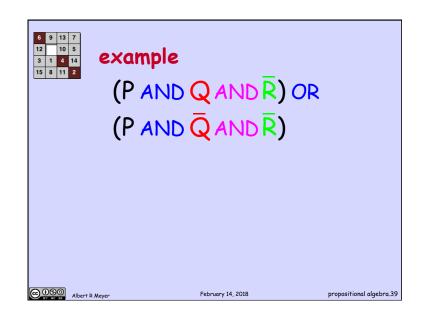


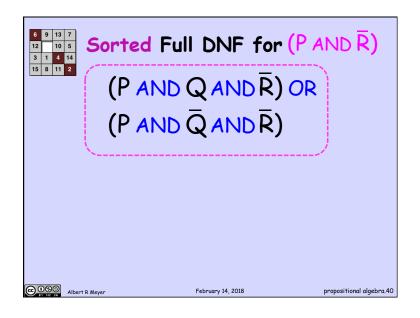


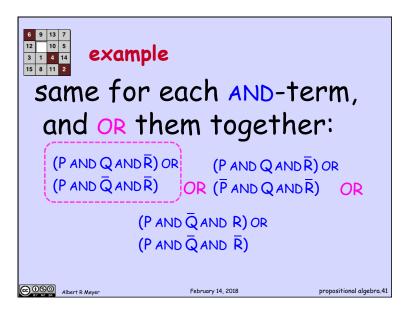


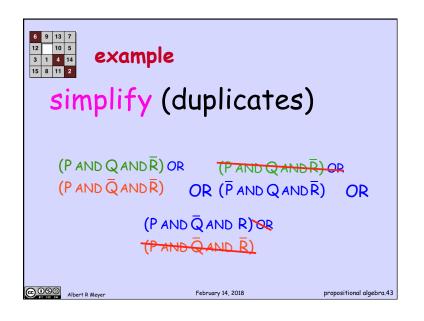


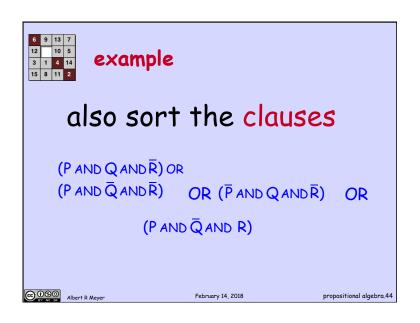


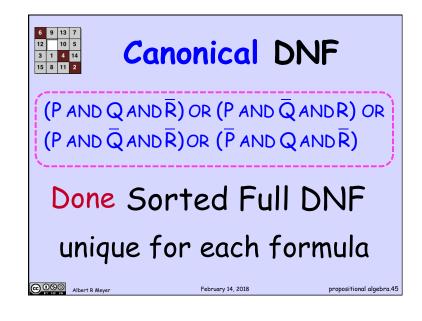


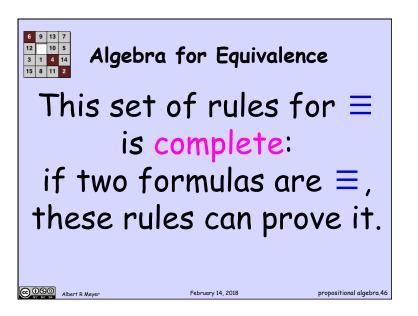


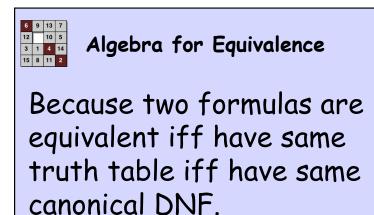












Algebraic proofs in general don't beat truth tables. No efficient method known for equivalence or validity.

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Validity Checking still hard

Algebraic proofs in general don't beat truth tables. No efficient method known for equivalence or validity.

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