



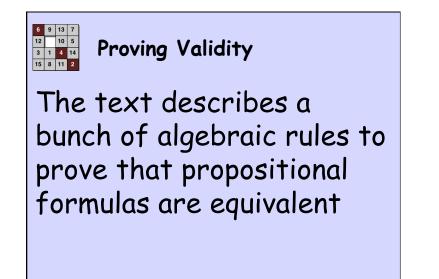
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Proving Validity

Instead of truth tables, can try to prove valid formulas symbolically using axioms and deduction rules

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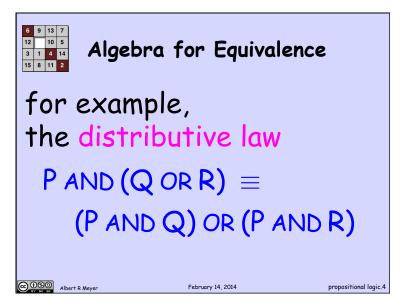
propositional logic,2

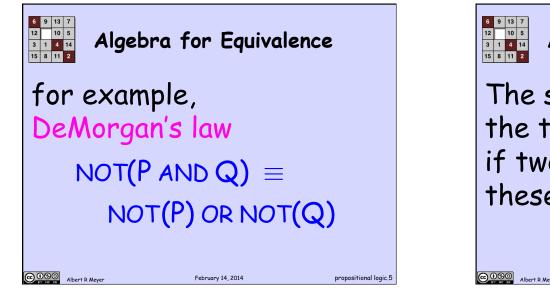


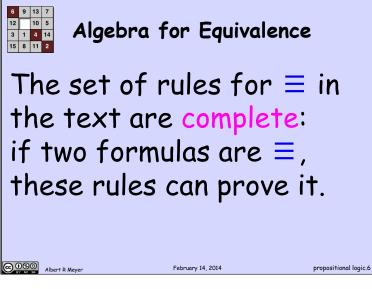
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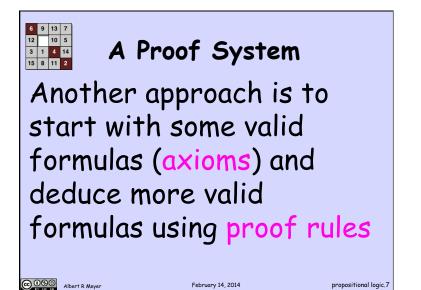
propositional logic.

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A Proof System

Lukasiewicz' proof system is a particularly elegant example of this idea.

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propositional logic.8



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A Proof System

Lukasiewicz' proof system is a particularly elegant example of this idea. It covers formulas whose only logical operators are IMPLIES (\rightarrow) and NOT.

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propositional logic.9

