

4.4 Aplia Assignment

propositional letters from propositional logic. Uppercase letters A through Z represent individual constants; and lowercase letters w through z represent individual variables. Using the rules of inference and the options provided in the drop-down menus, fill in the blanks to complete the proof.

1. $(\exists x)Lx \supset (x)Sx$ / $(x)[Lx \supset (Sx \vee Bx)]$

2. Lx _____ ▼

3. $(\exists x)Lx$ _____ ▼

4. $(x)Sx$ _____ ▼

5. Sx _____ ▼

6. $Sx \vee Bx$ _____ ▼

7. $Lx \supset (Sx \vee Bx)$ _____ ▼

8. $(x)[Lx \supset (Sx \vee Bx)]$ _____ ▼

(Use the following tabs if you need help remembering any of the natural deduction rules.)

▼ NATURAL DEDUCTION RULES AND PROOF METHODS

Modus Ponens (MP)

Modus Tollens (MT)

Pure Hypothetical Syllogism (HS)

Simplification (Simp)

Conjunction (Conj)

Addition (Add)

De Morgan's Rules (DM)

Distribution (Dist)

Double Negation (DN)

Transposition (Trans)

Material Implication (Impl)

Tautology (Taut)

Conditional Proof (ACP + CP)

Indirect Proof (AIP + IP)

Universal Introduction (UI)

Existential Instantiation (EI)

Existential Generalization (EG)

Quantifier Negation (QN)

Aplia Chapter 8 Answers

AW Chickering



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