

Proof Examples: Using `proof.sty`

15317 Constructive Logic

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Two example deductions in natural deduction:

$$\frac{\frac{\frac{A \text{ true}}{}^u}{A \supset A \text{ true}} \supset I^u \quad \frac{\frac{\frac{B \text{ true}}{}^u}{A \wedge B \text{ true}} \wedge E_2 \quad \frac{\frac{A \text{ true}}{}^u}{A \wedge B \text{ true}} \wedge E_1}{\frac{B \text{ true}}{} \quad A \text{ true}} \wedge I}{\frac{B \wedge A \text{ true}}{A \wedge B \supset B \wedge A \text{ true}}} \supset I^u$$