

Exercise 51

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ND-derivation of $(A \wedge B) \supset (B \wedge A)$:

$$(1),(2) \frac{\frac{\frac{[A \wedge B]^{(1)}}{B} \wedge\text{-elim}_2 \quad \frac{[A \wedge B]^{(2)}}{A} \wedge\text{-elim}_1}{B \wedge A} \wedge\text{-intro}}{(A \wedge B) \supset (B \wedge A)} \supset\text{-intro}$$