

COMP 4011
COMP 8011

Thm: $1+1=4$

Prf: w. log. $1+1=3$.

$$\frac{B \in \{A, B\}}{\{A, B\} \vdash B} \text{ ass}$$

$$\frac{A \in \{A, B\}}{\{A, B\} \vdash A} \text{ conj E}$$

$$\{A, B\} \vdash B$$

$$\{A, B\} \vdash A$$

$$\{A, B\} \vdash B \wedge A$$

$$\{\} \vdash (A \wedge B) \rightarrow (B \wedge A)$$

(impl)