- 1. $\exists x(A \land B) \vdash \exists xA \land \exists xB$
- $\exists x(A \land B), A \land B \vdash A \land B$
- $2 \exists x(A \land B), A \land B \vdash A$
- $\exists x(A \land B), A \land B \vdash B$
- $4 A \rightarrow \exists xA$
- 5 $\exists x(A \land B), A \land B \vdash \exists xA$
- $6 B \rightarrow \exists xB$
- 7 $\exists x(A \land B), A \land B \vdash \exists xB$
- 8 $\exists x(A \land B), A \land B \vdash \exists xA \land \exists xB$
- $9 \quad \exists x(A \land B) \vdash \exists x(A \land B)$
- 10 $\exists x(A \land B) \vdash \exists xA \land \exists xB$