

Predicate Logic Proofs Quiz

Complete proofs for the following sequents (use extra paper if needed):

$$\forall x(Gx \rightarrow (Fx \& Px)) \vdash \forall x(Gx \rightarrow Px)$$

$$\forall x(Gx \rightarrow \sim Hx), \exists x(Fx \& Gx) \vdash \exists x \sim Hx$$

$$\sim \forall x \sim Px \vdash \exists x Px$$

$$\forall x \forall y (Fxy \rightarrow Gxy) \vdash \forall x (Fxx \rightarrow \exists y (Gxy \& Fyx))$$

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