

Boolos and Jeffrey - HW6

David Maldonado, *david.m.maldonado@gmail.com*

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1 The story so far...

2 a few refutations

2.1

derivation: $\{\exists x(Fx \wedge Gx), \forall x(Gx \rightarrow \neg Hx)\} \vdash \exists x[x = x \wedge (Fx \wedge \neg Hx)]$

$\Delta : \{\}$

refutation of Δ :

2.2

derivation: $\{\exists xLbx \rightarrow \forall xLxb, \neg Lbb\} \vdash \neg Lba$

$\Delta : \{\}$

refutation of Δ :

2.3

derivation: $\{\exists y(Gy \wedge \forall zKyz), \forall y(Fy \rightarrow \neg \forall zKyz)\} \vdash \exists y(Gy \wedge \neg Fy)$

$\Delta : \{\}$

refutation of Δ :