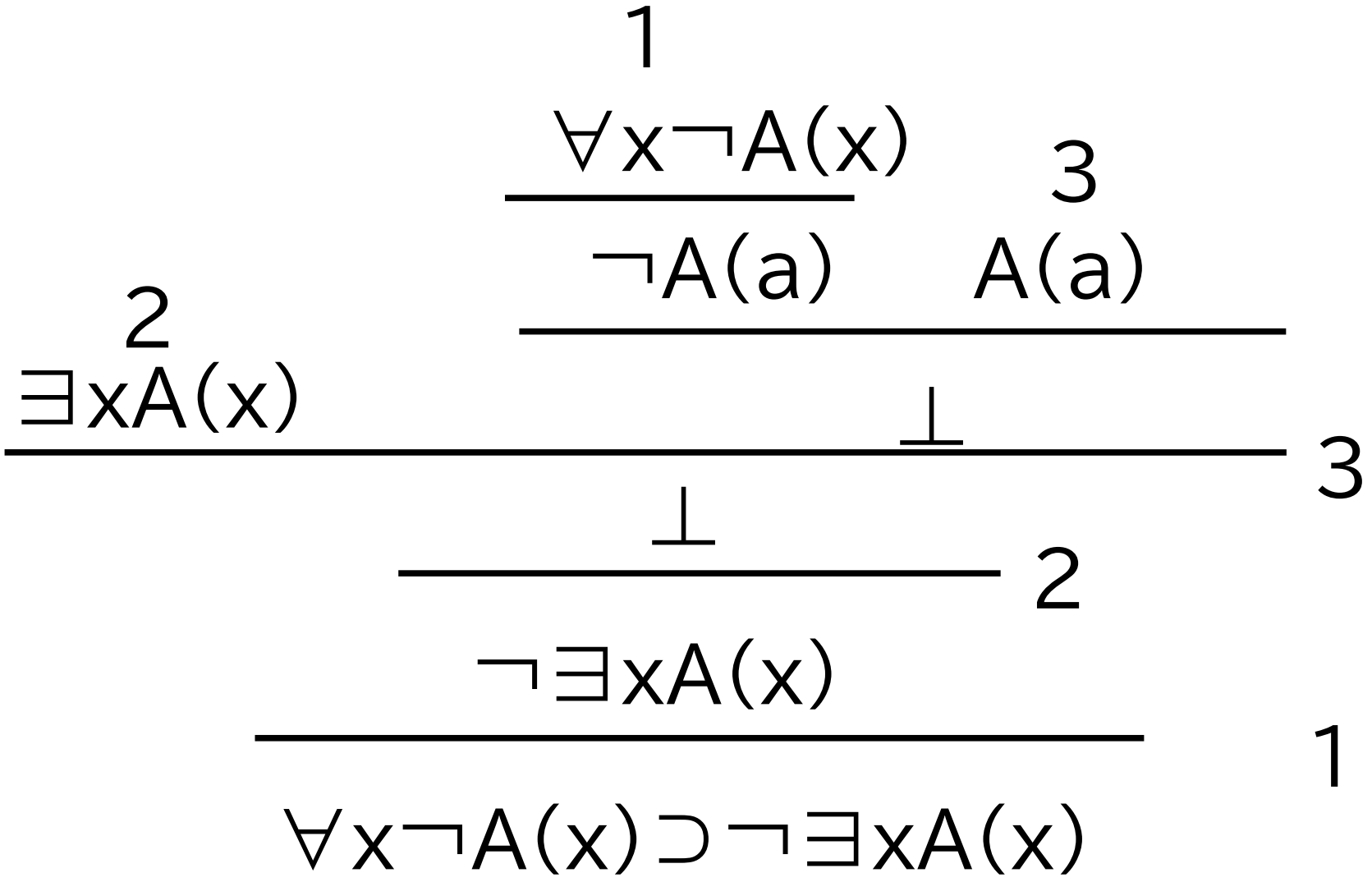
第5回レポート解答

34.

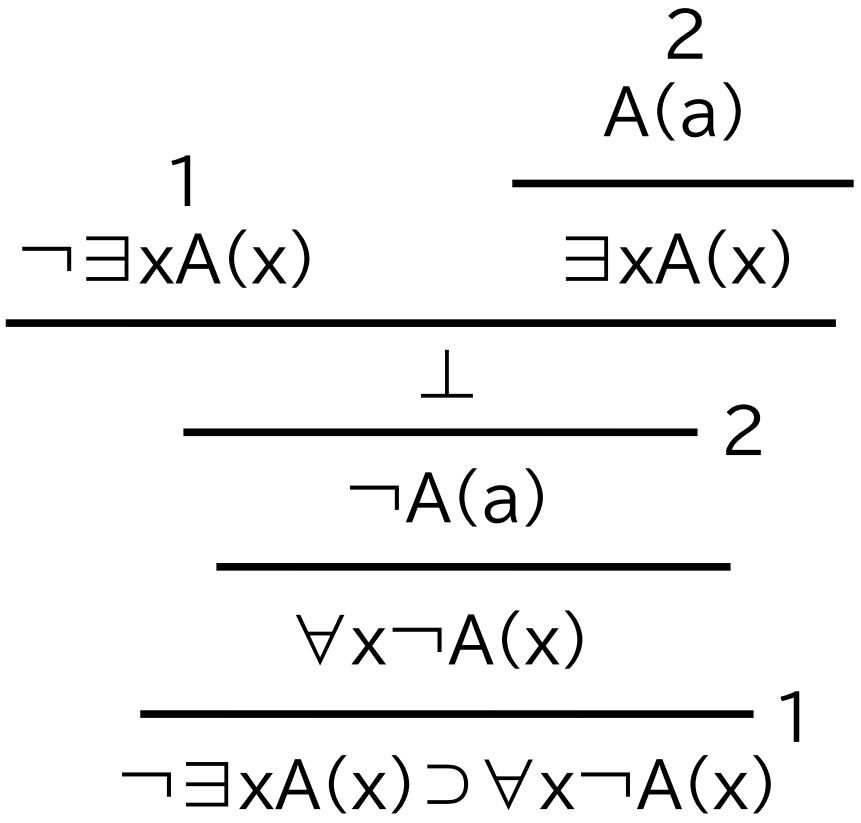


50.

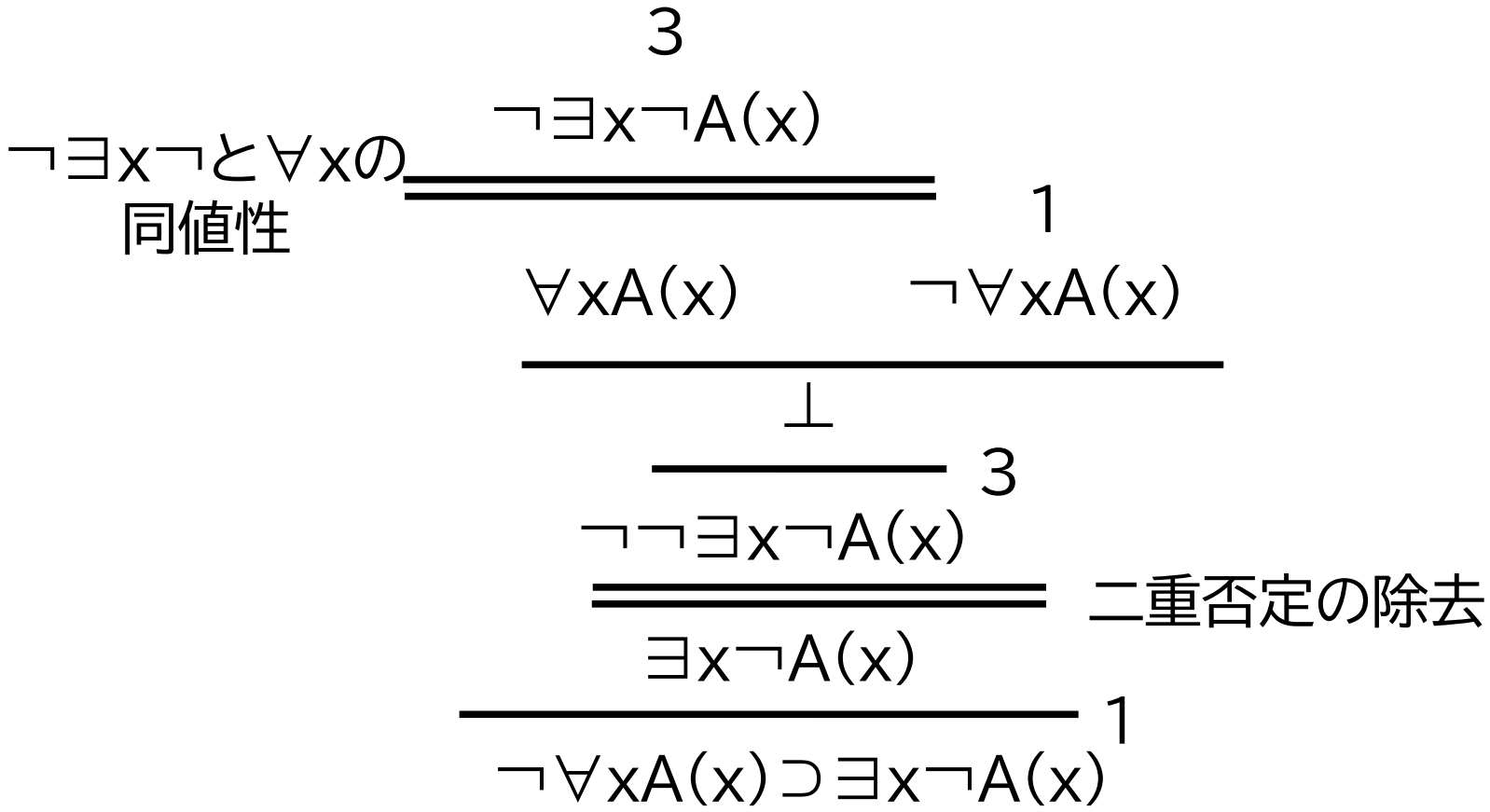
∀x¬A(x)⊃¬∃xA(x)の応用

$$\dfrac{\dfrac{\dfrac{\overset{2}{\exists x\neg A(x)} \qquad \dfrac{\dfrac{\overset{1}{\forall x A(x)}}{A(a)} \qquad \overset{3}{\neg A(a)}}{\bot}}{\bot}\;3}{\neg\exists x\neg A(x)}\;2}{\forall x A(x)\supset\neg\exists x\neg A(x)}\;1$$

33再掲.

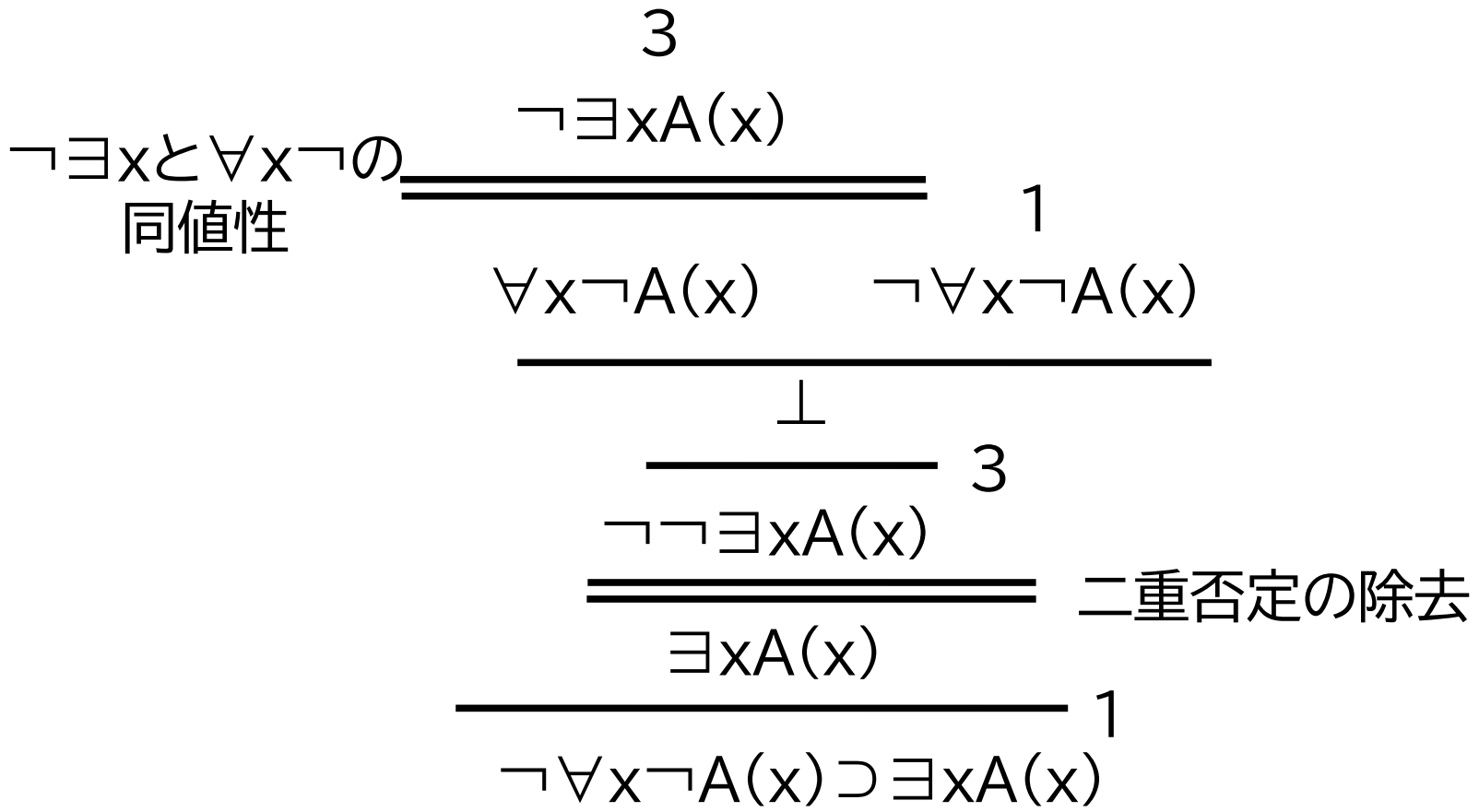


46再掲.

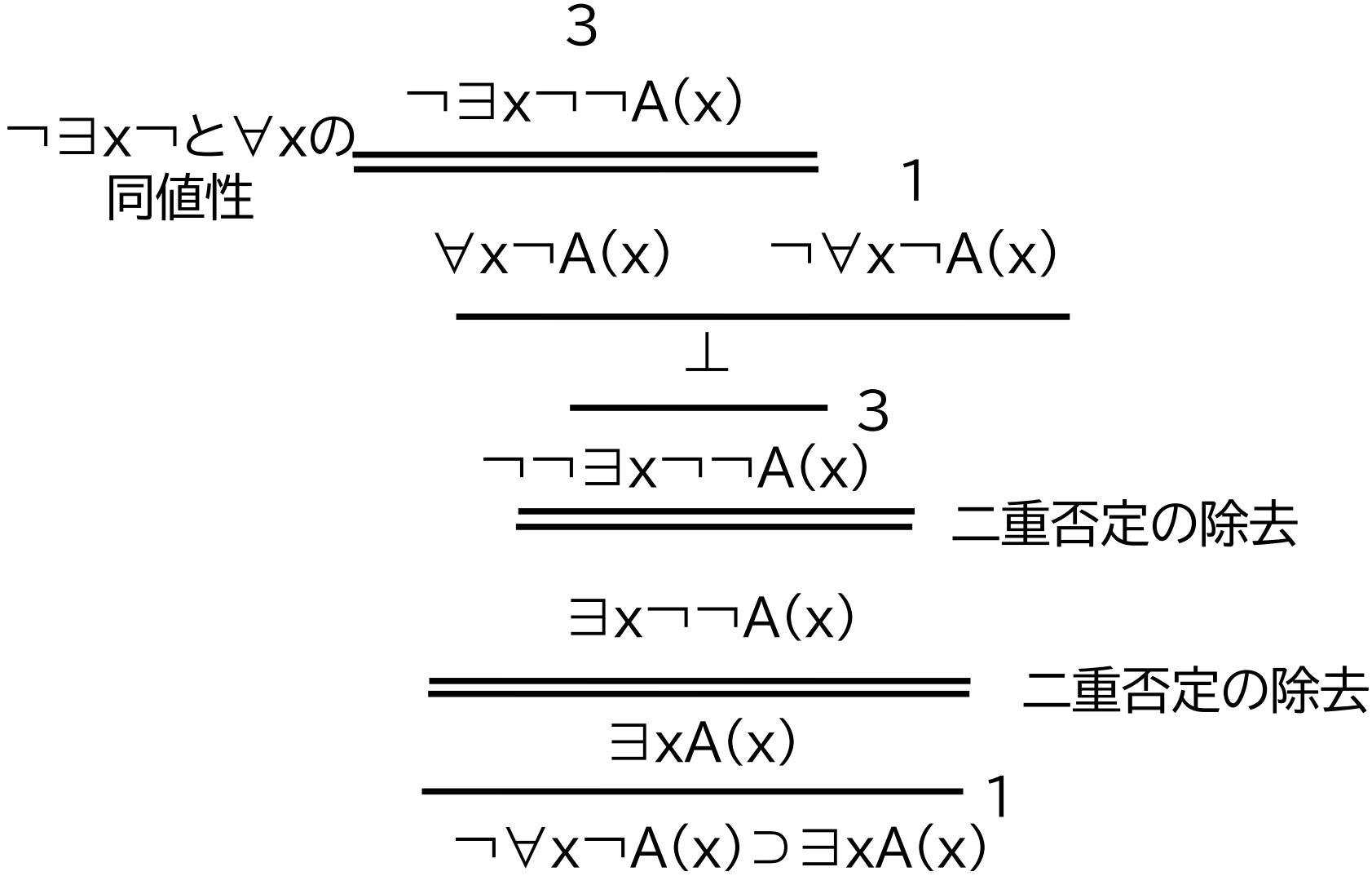


51.

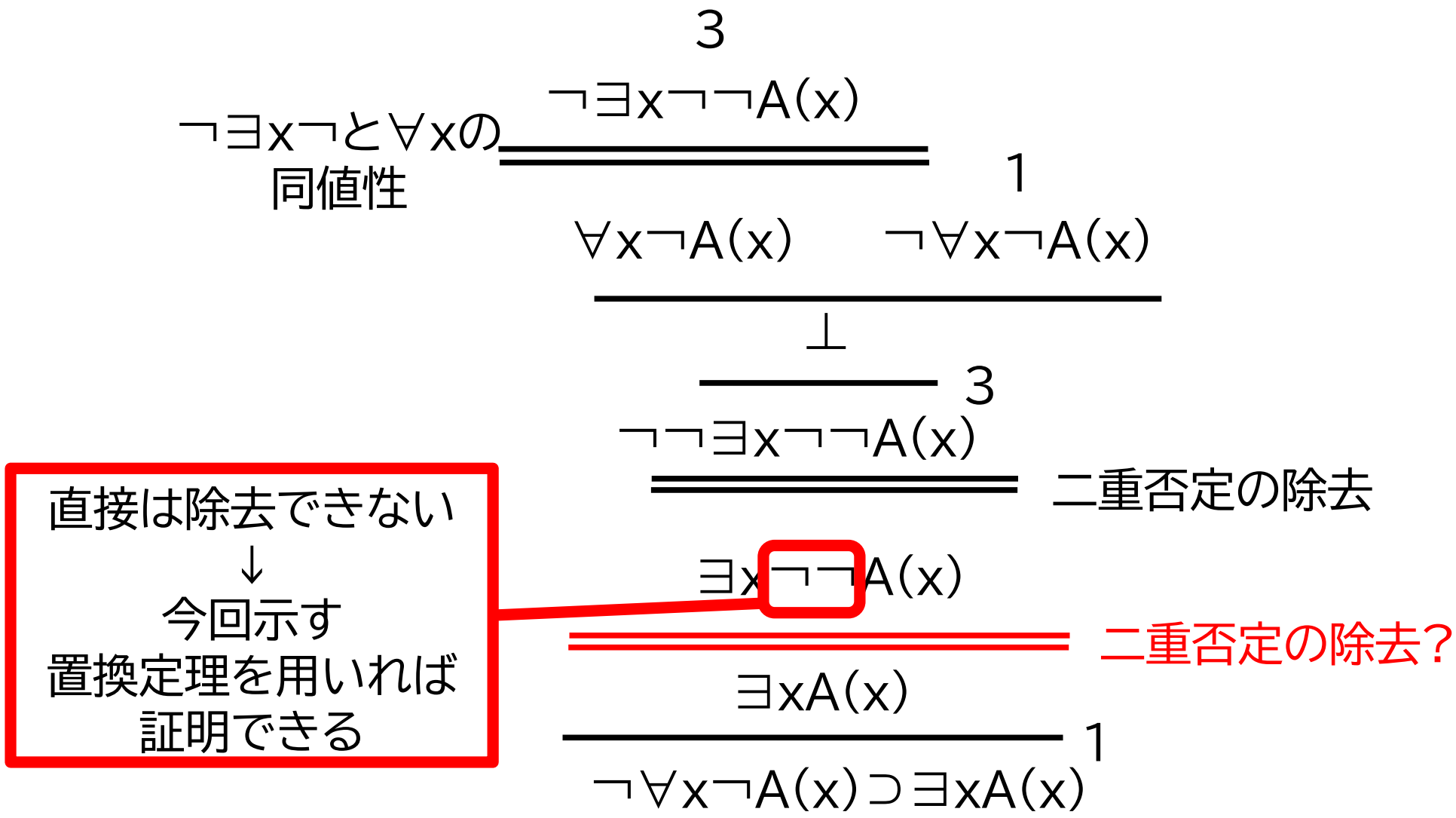
¬∀xA(x)⊃∃x¬A(x)の応用



51.誤答?例



51.誤答?例


3
¬∃x¬¬A(x)
¬∃x¬と∀xの同値性
1
∀x¬A(x)
¬∀x¬A(x)
⊥
3
¬¬∃x¬¬A(x)
二重否定の除去
∃x¬¬A(x)
二重否定の除去?
∃xA(x)
1
¬∀x¬A(x)⊃∃xA(x)
直接は除去できない
↓
今回示す
置換定理を用いれば
証明できる