

Lab 12 - Exercise 13.2

Sarah Griffioen

Facts

$On(A, B)$.

$On(B, C)$.

$Supports(Table, C)$,

$Supports(X, Y) \rightarrow On(Y, X)$,

$On(X, Y) \rightarrow Above(X, Y)$.

$Above(X, Y) \wedge Above(Y, Z) \rightarrow Above(X, Z)$.

Proof

$Supports(Table, C) \rightarrow On(C, Table)$,

$On(C, Table) \rightarrow Above(C, Table)$.

$On(B, C) \rightarrow Above(B, C)$.

$On(A, B) \rightarrow Above(A, B)$.

$Above(A, B) \wedge Above(B, C) \rightarrow Above(A, C)$.

$Above(A, C) \wedge Above(C, Table) \rightarrow \boxed{Above(A, Table)}$.