

theory Exercise1 imports OrderType Finite Nat Sum ZF.AC begin

definition

eqpoll :: "[i,i] => o" (infix1 <≈> 50) where  
"A ≈ B == ∃f. f ∈ bij(A,B)"

definition

Finite :: "i=>o" where  
"Finite(A) == ∃n∈nat. A ≈ n"

lemma abc: "~Finite(A) ==> A ≈ (A ∪ {A}).  
apply auto

end