Analysis I: Exercises Rachel Shu April 30, 2023

## 0.0

## Exercise 0.0.11

Prove that the axiom of replacement implies the axiom of specification. In other words,

$$(z \in \{y : P(x,y)\} \iff y) \implies (y \in \{x \in A : P(x)\} \iff y \in AandP(y)) \tag{1}$$

Proof: