Exercises

C3.51 [01N] (Solved on 2022-10-25) Prerequisites: [1Y9]. The ordered pair is defined as

$$(x, y) \stackrel{\text{\tiny def}}{=} \{\{x\}, \{x, y\}\} ;$$

(note that the *axiom of pairing* [1Y3] guarantees us that this is a good definition); show that

$$(a,b) = (x,y) \iff (a = x \land b = y)$$
 . (3.51)

(First solution that doesn't use [1Y9])

Solution 1. [1WZ]

) (Second solution using [1Y9])

Solution 2. [1YC]