Exercises

E3.36 [013] Given A a set, and $P(x)$ a proposition dependent on a free variable x, we usually write

$$\exists! x \in A, P(x)$$

when there is one and only one element x of A for which $P(x)$ is true. Define this notation with a well-formed formula. (Note that you will need to use the equality connective, because you must be able to express the idea of ”unique”, which needs of a method to be able to tell when two objects are distinguishable and when they are not).

Solution 1. *[015]*