

t10_membered
(TMS16kUXax4FrPhV5GpKmLDGbx82BZhSY9k)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v4_membered : \iota \Rightarrow o$ be given. Let $v1_rat_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v4_membered X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (v1_rat_1 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \quad (2)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v4_membered X0)) \Rightarrow (\exists X1. (v1_rat_1 X1) \wedge (X1 \in X0))$$