

t56_xxreal_2

(TMWaauc czGFvYtLCLpbvd49JX31DsP3x3N4)

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Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_xxreal_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(m2_xxreal_2 X1 X0) \Rightarrow (v1_xxreal_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((X1 = k2_xxreal_2 X0) \Leftrightarrow ((m2_xxreal_2 X1 X0) \wedge (\forall X2.(m2_xxreal_2 X2 X0) \Rightarrow (r1_xxreal_0 X2 X1)))))) \quad (2)$$

Assume the following.

$$\forall X0.(v2_membered X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((m2_xxreal_2 X1 X0) \Leftrightarrow (\forall X2.(v1_xxreal_0 X2) \Rightarrow ((X2 \in X0) \Rightarrow (r1_xxreal_0 X1 X2)))))) \quad (3)$$

Theorem 1

$$\forall X0.((v2_membered X0) \wedge (\neg v1_xboole_0 X0)) \Rightarrow (\forall X1.(m2_xxreal_2 X1 X0) \Rightarrow ((X1 \in X0) \Rightarrow (X1 = k2_xxreal_2 X0)))$$