t343_xxreal_1 (TMLonmQx5qw2QiCfpuM3ccsVpnLNKninKCK)

October 27, 2020

Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Let $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k6\_subset\_1\ (k1\_xxreal\_1\ k2\_xxreal\_0\ X1)\ (k4\_xxreal\_1\ X0\ X2) = k2\_xboole\_0\ (k1\_xxreal\_1\ k2\_xxreal\_0\ X0)\ (k1\_xxreal\_1\ X2\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (k1\_xxreal\_1\ X0\ X0 = k1\_tarski\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k2\_xboole\_0\ X0\ X1 = k2\_xboole\_0\ X1\ X0 \tag{3}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k6\_subset\_1\ (k1\_xxreal\_1\ k2\_xxreal\_0\ X1)\ (k4\_xxreal\_1\ X0\ X1) = k2\_xboole\_0\ (k1\_xxreal\_1\ k2\_xxreal\_0\ X0)\ (k1\_tarski\ X1))))$$