t327_xxreal_1 (TMFtPsCcStQmXyvJBPt5r3LN5oYZ8cqEkwg)

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 $k2\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (r1\_xxreal\_0\ k2\_xxreal\_0\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xxreal\_0\ X3) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X2\ X3)) \Rightarrow (k6\_subset\_1\ (k2\_xxreal\_1\ X0\ X3)\ (k2\_xxreal\_1\ X2\ X1) = k2\_xboole\_0\ (k2\_xxreal\_1\ X0\ X2)\ (k2\_xxreal\_1\ X1\ X3)))))) \tag{2}$$

Assume the following.

$$v1\_xxreal\_0\ k2\_xxreal\_0 \tag{3}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k6\_subset\_1\ (k2\_xxreal\_1\ k2\_xxreal\_0\ X1)\ (k2\_xxreal\_1\ X0\ X2) = k2\_xboole\_0\ (k2\_xxreal\_1\ k2\_xxreal\_0\ X0)\ (k2\_xxreal\_1\ X2\ X1)))))$$