t17_measure6 (TMTivemRaLJRWM-rUdDf1PPXKG5EeADbqD1A)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v6\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $v2\_measure5 : \iota \Rightarrow o$ be given. Let $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $k8\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xxreal\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_xxreal\_2 : \iota \Rightarrow \iota$ be given. Let $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_membered : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k1\_xxreal\_2\ (k1\_xxreal\_1\ X0\ X1) = X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k2\_xxreal\_2\ (k1\_xxreal\_1\ X0\ X1) = X0))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (((\neg v1\_xboole\_0\ X0) \wedge (v2\_measure5\ X0)) \Leftrightarrow (\exists X1.(m1\_subset\_1\ X1\ k1\_numbers) \wedge (\exists X2.(m1\_subset\_1\ X2\ k1\_numbers) \wedge ((r1\_xxreal\_0\ X1\ X2) \wedge (X0 = k1\_rcomp\_1\ X1\ X2))))) \tag{3}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0) \Rightarrow (k8\_supinf\_2\ X0 = k1\_xxreal\_2\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0) \Rightarrow (k7\_supinf\_2\ X0 = k2\_xxreal\_2\ X0) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k1\_rcomp\_1\ X0\ X1 = k1\_xxreal\_1\ X0\ X1) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(v3\_membered\ X0) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{10}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge((v6\_xxreal\_2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))))\Rightarrow((v2\_measure5\ X0)\Rightarrow(X0 = k1\_xxreal\_1\ (k7\_supinf\_2\ X0)\ (k8\_supinf\_2\ X0)))$$