

# t12\_measure6 (TMdvNBH- MAQ3ucYTjXiKKpZzbeNBh2fmqkSA)

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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  $k7\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_measure5 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_supinf\_2 : \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((\neg r1\_xxreal\_0 X1 X0) \Rightarrow (k1\_xxreal\_2 (k4\_xxreal\_1 X0 X1) = X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (k4\_xxreal\_1 X1 X0 = k1\_xboole\_0))) \quad (2)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (k8\_supinf\_2 X0 = k1\_xxreal\_2 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k7\_numbers) \wedge (m1\_subset\_1 X1 k7\_numbers)) \Rightarrow (k1\_measure5 X0 X1 = k4\_xxreal\_1 X0 X1) \quad (4)$$

Assume the following.

$$v3\_membered k1\_numbers \quad (5)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (6)$$

Assume the following.

$$\forall X0.(v3\_membered X0) \Rightarrow (v2\_membered X0) \quad (7)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v2\_membered\ X1)) \quad (8)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \quad (9)$$

**Theorem 1**

$$\begin{aligned} &\forall X0.((\neg v1\_xboole\_0\ X0)\wedge((v6\_xreal\_2\ X0)\wedge(m1\_subset\_1 \\ &X0\ (k1\_zfmisc\_1\ k1\_numbers))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k7\_numbers)\Rightarrow \\ &((\exists X2.(m1\_subset\_1\ X2\ k7\_numbers)\wedge((r1\_xreal\_0\ X2\ X1)\wedge \\ &(X0 = k1\_measure5\ X2\ X1)))\Rightarrow(X1 = k8\_supinf\_2\ X0))) \end{aligned}$$