

t5\_measure5 (TMWAbqf-  
mUgwf4ZJ96rE3vxSSYfRo2LL8vDM)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_measure5 : \iota \Rightarrow \iota$  be given. Let  $k1\_measure5 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_supinf\_2 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $k8\_supinf\_2 : \iota \Rightarrow \iota$  be given. Let  $k7\_supinf\_2 : \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\neg \\ (\neg r1\_xxreal\_0 X1 X0) \wedge (v1\_xboole\_0 (k4\_xxreal\_1 X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (( \\ \neg r1\_xxreal\_0 X1 X0) \Rightarrow (k1\_xxreal\_2 (k4\_xxreal\_1 X0 X1) = X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (( \\ \neg r1\_xxreal\_0 X1 X0) \Rightarrow (k2\_xxreal\_2 (k4\_xxreal\_1 X0 X1) = X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (( \\ r1\_xxreal\_0 X0 X1) \Rightarrow (k4\_xxreal\_1 X1 X0 = k1\_xboole\_0))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (k8\_supinf\_2 X0 = k1\_xxreal\_2 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (k7\_supinf\_2 X0 = k2\_xxreal\_2 X0) \quad (6)$$

Assume the following.

$$k1\_supinf\_2 = k1\_xboole\_0 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k7\_numbers)\wedge(m1\_subset\_1 X1 k7\_numbers))\Rightarrow(k1\_measure5 X0 X1 = k4\_xxreal\_1 X0 X1) \quad (8)$$

Assume the following.

$$v3\_membered k1\_numbers \quad (9)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k7\_numbers)\wedge(m1\_subset\_1 X1 k7\_numbers))\Rightarrow(m1\_subset\_1 (k1\_measure5 X0 X1) (k1\_zfmisc\_1 k1\_numbers)) \quad (11)$$

Assume the following.

$$\forall X0.(v2\_membered X0)\Rightarrow(((X0\neq k1\_xboole\_0)\Rightarrow(k2\_measure5 X0 = k4\_supinf\_2 (k8\_supinf\_2 X0) (k7\_supinf\_2 X0)))\wedge((X0 = k1\_xboole\_0)\Rightarrow(k2\_measure5 X0 = k1\_supinf\_2))) \quad (12)$$

Assume the following.

$$\forall X0.(v3\_membered X0)\Rightarrow(v2\_membered X0) \quad (13)$$

Assume the following.

$$\forall X0.(v2\_membered X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))\Rightarrow(v2\_membered X1)) \quad (14)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k7\_numbers)\Rightarrow(v1\_xxreal\_0 X0) \quad (15)$$

### Theorem 1

$$\forall X0.(m1\_subset\_1 X0 k7\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1 X1 k7\_numbers)\Rightarrow(((\neg r1\_xxreal\_0 X1 X0)\Rightarrow(k2\_measure5 (k1\_measure5 X0 X1) = k4\_supinf\_2 X1 X0))\wedge((r1\_xxreal\_0 X1 X0)\Rightarrow(k2\_measure5 (k1\_measure5 X0 X1) = k1\_supinf\_2))))$$