

l17\_measure5 (TM-  
FuJ6Ed5Tk181k5NmM3hxvYKX3dFvNKdc3)

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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  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k2\_measure5 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_2 : \iota \Rightarrow \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k8\_supinf\_2 : \iota \Rightarrow \iota$  be given. Let  $k7\_supinf\_2 : \iota \Rightarrow \iota$  be given. Let  $k7\_numbers : \iota$  be given. Let  $k4\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_supinf\_2 : \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (r1\_xxreal\_0 k6\_numbers (k3\_xxreal\_3 X1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((\neg v1\_xboole\_0 X0) \Leftrightarrow (r1\_xxreal\_0 (k2\_xxreal\_2 X0) (k1\_xxreal\_2 X0))) \quad (3)$$

Assume the following.

$$(m2\_subset\_1 np\_0 k1\_numbers k5\_numbers) \wedge ((m1\_subset\_1 np\_0 k5\_numbers) \wedge (m1\_subset\_1 np\_0 k1\_numbers)) \quad (4)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (r1\_xxreal\_0 X0 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(k8\_supinf\_2\ X0 = k1\_xxreal\_2\ X0) \quad (7)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(k7\_supinf\_2\ X0 = k2\_xxreal\_2\ X0) \quad (8)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k7\_numbers)\wedge(m1\_subset\_1\ X1\ k7\_numbers))\Rightarrow(k4\_supinf\_2\ X0\ X1 = k3\_xxreal\_3\ X0\ X1) \quad (10)$$

Assume the following.

$$k1\_supinf\_2 = k1\_xboole\_0 \quad (11)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(m1\_subset\_1\ (k8\_supinf\_2\ X0)\ k7\_numbers) \quad (12)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(m1\_subset\_1\ (k7\_supinf\_2\ X0)\ k7\_numbers) \quad (13)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(v1\_xxreal\_0\ (k2\_xxreal\_2\ X0)) \quad (14)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(v1\_xxreal\_0\ (k1\_xxreal\_2\ X0)) \quad (15)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(((X0\neq k1\_xboole\_0)\Rightarrow(k2\_measure5\ X0 = k4\_supinf\_2\ (k8\_supinf\_2\ X0)\ (k7\_supinf\_2\ X0)))\wedge((X0 = k1\_xboole\_0)\Rightarrow(k2\_measure5\ X0 = k1\_supinf\_2))) \quad (16)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(v3\_membered\ X0) \quad (17)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \quad (18)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \quad (19)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \quad (20)$$

**Theorem 1**

$$\forall X0.((v6\_xxreal\_2\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)))\Rightarrow \\ (r1\_xxreal\_0\ k6\_numbers\ (k2\_measure5\ X0))$$