

## t53\_measure6

(TMV2ZfMgw9DS78t9DaomwELCnN6FJ4fCYtV)

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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  $v2\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $k2\_measure6 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (\forall X1. \\ (v1\_xreal\_0 X1) \Rightarrow (k2\_measure6 (k2\_measure6 X0 X1) (k4\_xcmplx\_0 \\ X1) = X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v2\_rcomp\_1 X1) \Rightarrow (v2\_rcomp\_1 ( \\ k2\_measure6 X1 X0)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow ((v1\_xcmplx\_0 (k4\_xcmplx\_0 X0)) \wedge \\ (v1\_xreal\_0 (k4\_xcmplx\_0 X0))) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v3\_membered X0) \wedge (v1\_xreal\_0 X1)) \Rightarrow (m1\_subset\_1 \\ (k2\_measure6 X0 X1) (k1\_zfmisc\_1 k1\_numbers)) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Leftrightarrow (X0 \in k1\_numbers) \tag{6}$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xreal\_0 X0) \quad (8)$$

**Theorem 1**

$$\begin{aligned} &\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))\Rightarrow(\forall X1. \\ &(m1\_subset\_1 X1 k1\_numbers)\Rightarrow((v2\_rcomp\_1 X0)\Leftrightarrow(v2\_rcomp\_1 (k2\_measure6 \\ &\quad X0 X1)))) \end{aligned}$$