t53_afinsq_2 (TMPssZ6uqQxHpG6HnprmjsuKrXRkP8jA7D7)

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Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k7\_afinsq\_2 : \iota \Rightarrow \iota$ be given. Let $k5\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_afinsq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $k2\_numbers : \iota$ be given. Let $k27\_binop\_2 : \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (k6\_afinsq\_2\ X0\ (k5\_afinsq\_1\ X2)\ X1 = X2))) \tag{1}$$

Assume the following.

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

Assume the following.

$$\forall X0.k5\_afinsq\_1\ X0 = k3\_afinsq\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0.(v5\_ordinal1\ (k3\_afinsq\_1\ X0)) \wedge (v1\_finset\_1\ (k3\_afinsq\_1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ (k3\_afinsq\_1\ X0)) \wedge (v1\_funct\_1\ (k3\_afinsq\_1\ X0)) \tag{5}$$

Assume the following.

$$\neg v1\_xboole\_0\ k2\_numbers \tag{6}$$

Assume the following.

$$(v1\_funct\_1\ k27\_binop\_2)\wedge((v1\_funct\_2\ k27\_binop\_2\ (k2\_zfmisc\_1\ k2\_numbers\ k2\_numbers)\ k2\_numbers)\wedge(m1\_subset\_1\ k27\_binop\_2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ k2\_numbers\ k2\_numbers)\ k2\_numbers)))) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge((v5\_ordinal1\ X0)\wedge(v1\_finset\_1\ X0))))\Rightarrow(k7\_afinsq\_2\ X0 = k6\_afinsq\_2\ k2\_numbers\ X0\ k27\_binop\_2) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0)\Leftrightarrow(X0 \in k2\_numbers) \tag{9}$$

Theorem 1 $\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(k7\_afinsq\_2\ (k5\_afinsq\_1\ X0) = X0)$.