t23_afinsq_1 (TMX1Xvs7dtazL9Q2bzq4mDRDAi79Ra7eYg7)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k2\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_ordinal4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1) \wedge ((v5\_ordinal1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finset\_1\ X1)))) \Rightarrow (\forall X2.((v1\_relat\_1\ X2) \wedge ((v5\_ordinal1\ X2) \wedge ((v1\_funct\_1\ X2) \wedge (v1\_finset\_1\ X2)))) \Rightarrow (\neg(X0 \in k2\_afinsq\_1\ X1) \wedge (\forall X3.(v7\_ordinal1\ X3) \Rightarrow (\neg(X3 = X0) \wedge (k2\_nat\_1\ (k1\_afinsq\_1\ X2)\ X3 \in k2\_afinsq\_1\ (k1\_ordinal4\ X2\ X1))))))) \tag{1}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v5\_ordinal1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finset\_1\ X1)))) \Rightarrow (\forall X2. ((v1\_relat\_1\ X2) \wedge ((v5\_ordinal1\ X2) \wedge ((v1\_funct\_1\ X2) \wedge (v1\_finset\_1\ X2)))) \Rightarrow ((X0 \in k2\_afinsq\_1\ X1) \Rightarrow (k2\_nat\_1\ (k1\_afinsq\_1\ X2)\ X0 \in k2\_afinsq\_1\ (k1\_ordinal4\ X2\ X1)))))$$