

t76_afinsq_1
(TMb6VDj2UqeKRgfBBdcyAYk9ji4F92LdeoN)

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Let $k6_afinsq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. ((v1_relat_1 X4) \wedge (v1_funct_1 X4)) \Rightarrow (((k9_xtuple_0 X4 = k2_tarski X0 X1) \wedge ((k1_funct_1 X4 X0 = X2) \wedge (k1_funct_1 X4 X1 = X3))) \Rightarrow (X4 = k4_funct_4 X0 X1 X2 X3)) \quad (1)$$

Assume the following.

$$np_2 = k2_tarski k1_xboole_0 np_1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v5_ordinal1 X2) \wedge ((v1_funct_1 X2) \wedge ((v1_finset_1 X2)))))) \Rightarrow ((X2 = k6_afinsq_1 X0 X1) \Leftrightarrow ((k1_afinsq_1 X2 = np_2) \wedge ((k1_funct_1 X2 k6_numbers = X0) \wedge (k1_funct_1 X2 np_1 = X1)))) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v5_ordinal1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finset_1 X0)))) \Rightarrow (k1_afinsq_1 X0 = k1_card_1 X0) \quad (5)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v5_ordinal1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finset_1 X0)))) \Rightarrow (k1_card_1 X0 = k9_xtuple_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 (k6_afinsq_1 X0 X1))\wedge(v1_funct_1 (k6_afinsq_1 X0 X1)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(v5_ordinal1 (k6_afinsq_1 X0 X1))\wedge(v1_finset_1 (k6_afinsq_1 X0 X1)) \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.k6_afinsq_1 X0 X1 = k4_funct_4 k6_numbers_{np-1} X0 X1$$