

t85_afinsq_1

(TMJ5tZRDAP4tow5ozYrgQxH5Dy8KxRX7GNY)

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Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_afinsq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ 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 $k1_ordinal4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k1_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v5_ordinal1 X0) \wedge ((v1_funct_1 \\ & \quad X0) \wedge (v1_finset_1 X0)))) \Rightarrow (\forall X1. \forall X2. \forall X3. \forall X4. \\ & (X0 = k1_ordinal4 (k1_ordinal4 (k1_ordinal4 (k5_afinsq_1 X1) (\\ & \quad k5_afinsq_1 X2)) (k5_afinsq_1 X3)) (k5_afinsq_1 X4)) \Rightarrow ((k1_afinsq_1 \\ & \quad X0 = np_4) \wedge ((k1_funct_1 X0 k6_numbers = X1) \wedge ((k1_funct_1 X0 np_1 = \\ & \quad X2) \wedge ((k1_funct_1 X0 np_2 = X3) \wedge (k1_funct_1 X0 np_3 = X4)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (v5_ordinal1 (k16_afinsq_1 X0 X1 X2 X3)) \wedge (v1_finset_1 (k16_afinsq_1 X0 X1 X2 X3)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (v1_relat_1 (k16_afinsq_1 X0 X1 X2 X3)) \wedge (v1_funct_1 (k16_afinsq_1 X0 X1 X2 X3)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k16_afinsq_1 X0 X1 \\ & \quad X2 X3 = k1_ordinal4 (k1_ordinal4 (k1_ordinal4 (k5_afinsq_1 X0) \\ & \quad (k5_afinsq_1 X1)) (k5_afinsq_1 X2)) (k5_afinsq_1 X3) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (k1_funct_1 (k16_afinsq_1 \\ & \quad X0 X1 X2 X3) k6_numbers = X0) \wedge ((k1_funct_1 (k16_afinsq_1 X0 X1 X2 \\ & \quad X3) np_1 = X1) \wedge ((k1_funct_1 (k16_afinsq_1 X0 X1 X2 X3) np_2 = X2) \wedge \\ & \quad (k1_funct_1 (k16_afinsq_1 X0 X1 X2 X3) np_3 = X3))) \end{aligned}$$