

t2_finsop_1

(TMMF8an7mVS1uxTsKHcUX9qErRmsX9byq4o)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k8_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_finsop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k11_arytm_3 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_setwiseo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (2)$$

Assume the following.

$$k11_arytm_3 = k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0. (v1_xxreal_0 \ X0) \Rightarrow ((v2_xxreal_0 \ X0) \Leftrightarrow (\neg r1_xxreal_0 \ X0 \ k6_numbers)) \quad (4)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota. v1_xboole_0 \ X0) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m2_finseq_1 X1 X0) \Rightarrow \\
& (\forall X2.((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k2_zfmisc_1 X0 \\
& X0) X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 \\
& X0 X0) X0)))))) \Rightarrow (((v1_setwiseo X2 X0) \vee (r1_xxreal_0 np_1 (k3_finseq_1 \\
& X1))) \Rightarrow (\forall X3.(m1_subset_1 X3 X0) \Rightarrow (((v1_setwiseo X2 X0) \wedge \\
& (k3_finseq_1 X1 = k6_numbers)) \Rightarrow ((X3 = k1_finsop_1 X0 X1 X2) \Leftrightarrow (X3 = \\
& k4_binop_1 X0 X2))) \wedge ((\neg(v1_setwiseo X2 X0) \wedge (k3_finseq_1 X1 = k6_numbers)) \Rightarrow \\
& ((X3 = k1_finsop_1 X0 X1 X2) \Leftrightarrow (\exists X4.((v1_funct_1 X4) \wedge ((v1_funct_2 \\
& X4 k5_numbers X0) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\
& X0)))))) \wedge ((k8_nat_1 X0 X4 np_1 = k1_funct_1 X1 np_1) \wedge ((\forall X5. \\
& (m1_subset_1 X5 k5_numbers) \Rightarrow (\neg(k6_numbers \neq X5) \wedge ((\neg r1_xxreal_0 \\
& (k3_finseq_1 X1) X5) \wedge (k8_nat_1 X0 X4 (k2_nat_1 X5 np_1) \neq k1_binop_1 \\
& X2 (k8_nat_1 X0 X4 X5) (k1_funct_1 X1 (k2_nat_1 X5 np_1)))))) \wedge (\\
& X3 = k8_nat_1 X0 X4 (k3_finseq_1 X1))))))))) \Rightarrow
\end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \tag{7}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \tag{8}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow \\
& (\forall X2.(m2_finseq_1 X2 X0) \Rightarrow (\forall X3.((v1_funct_1 X3) \wedge \\
& ((v1_funct_2 X3 (k2_zfmisc_1 X0 X0) X0) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\
& (k2_zfmisc_1 (k2_zfmisc_1 X0 X0) X0)))))) \Rightarrow ((r1_xxreal_0 np_1 \\
& (k3_finseq_1 X2)) \Rightarrow ((\forall X4.((v1_funct_1 X4) \wedge ((v1_funct_2 \\
& X4 k5_numbers X0) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\
& X0)))))) \Rightarrow (\neg(k8_nat_1 X0 X4 np_1 = k1_funct_1 X2 np_1) \wedge ((\forall X5. \\
& (m1_subset_1 X5 k5_numbers) \Rightarrow (\neg(k6_numbers \neq X5) \wedge ((\neg r1_xxreal_0 \\
& (k3_finseq_1 X2) X5) \wedge (k8_nat_1 X0 X4 (k2_nat_1 X5 np_1) \neq k1_binop_1 \\
& X3 (k8_nat_1 X0 X4 X5) (k1_funct_1 X2 (k2_nat_1 X5 np_1)))))) \wedge (\\
& X1 = k8_nat_1 X0 X4 (k3_finseq_1 X2)))))) \vee (X1 = k1_finsop_1 X0 X2 X3))))))
\end{aligned}$$