

t7_filter_2 (TM- Phtv7qD5WmUarUXhh4wsqGqcrmeTuiSW2)

October 27, 2020

Let $v2_struct.0 : \iota \Rightarrow o$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $k1_lattice2 : \iota \Rightarrow \iota$ be given. Let $g3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $u2_lattices : \iota \Rightarrow \iota$ be given. Let $u1_lattices : \iota \Rightarrow \iota$ 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 $l2_lattices : \iota \Rightarrow o$ be given. Let $l1_lattices : \iota \Rightarrow o$ be given. Let $v3_lattices : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_funct.1 X1) \wedge ((v1_funct.2 \\ & X1 (k2_zfmisc.1 X0 X0) X0) \wedge (m1_subset.1 X1 (k1_zfmisc.1 (k2_zfmisc.1 \\ & (k2_zfmisc.1 X0 X0) X0)))) \wedge ((v1_funct.1 X2) \wedge ((v1_funct.2 X2 \\ & (k2_zfmisc.1 X0 X0) X0) \wedge (m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 \\ & (k2_zfmisc.1 X0 X0) X0)))))) \Rightarrow (\forall X3. \forall X4. \forall X5. \\ & (g3_lattices X0 X1 X2 = g3_lattices X3 X4 X5) \Rightarrow ((X0 = X3) \wedge ((X1 = X4) \wedge \\ & (X2 = X5)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l2_lattices X0) \Rightarrow ((v1_funct.1 (u2_lattices X0)) \wedge \\ & ((v1_funct.2 (u2_lattices X0) (k2_zfmisc.1 (u1_struct.0 X0) (\\ & u1_struct.0 X0)) (u1_struct.0 X0)) \wedge (m1_subset.1 (u2_lattices \\ & X0) (k1_zfmisc.1 (k2_zfmisc.1 (k2_zfmisc.1 (u1_struct.0 X0) (\\ & u1_struct.0 X0)) (u1_struct.0 X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_lattices X0) \Rightarrow ((v1_funct.1 (u1_lattices X0)) \wedge \\ & ((v1_funct.2 (u1_lattices X0) (k2_zfmisc.1 (u1_struct.0 X0) (\\ & u1_struct.0 X0)) (u1_struct.0 X0)) \wedge (m1_subset.1 (u1_lattices \\ & X0) (k1_zfmisc.1 (k2_zfmisc.1 (k2_zfmisc.1 (u1_struct.0 X0) (\\ & u1_struct.0 X0)) (u1_struct.0 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. (l3_lattices X0) \Rightarrow ((l1_lattices X0) \wedge (l2_lattices X0)) \tag{4}$$

Assume the following.

$$\forall X0.(l3_lattices\ X0)\Rightarrow((v3_lattices\ (k1_lattice2\ X0))\wedge (l3_lattices\ (k1_lattice2\ X0))) \quad (5)$$

Assume the following.

$$\forall X0.(l3_lattices\ X0)\Rightarrow(k1_lattice2\ X0 = g3_lattices\ (u1_struct_0\ X0)\ (u1_lattices\ X0)\ (u2_lattices\ X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l3_lattices\ X0)\Rightarrow((v3_lattices\ X0)\Rightarrow(X0 = g3_lattices\ (u1_struct_0\ X0)\ (u2_lattices\ X0)\ (u1_lattices\ X0))) \quad (7)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0\ X0)\wedge((v10_lattices\ X0)\wedge(l3_lattices\ X0)))\Rightarrow(k1_lattice2\ (k1_lattice2\ X0) = g3_lattices\ (u1_struct_0\ X0)\ (u2_lattices\ X0)\ (u1_lattices\ X0))$$