

t22_sheffer1

(TMHW2Net1T6UDwnjP5JzQWtQk3r6isdFQ1P)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v4_lattices : \iota \Rightarrow o$ be given. Let $v6_lattices : \iota \Rightarrow o$ be given. Let $v11_lattices : \iota \Rightarrow o$ be given. Let $v7_robbins1 : \iota \Rightarrow o$ be given. Let $v1_sheffer1 : \iota \Rightarrow o$ be given. Let $v2_sheffer1 : \iota \Rightarrow o$ be given. Let $v3_sheffer1 : \iota \Rightarrow o$ be given. Let $v4_sheffer1 : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_sheffer1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_lattices : \iota \Rightarrow \iota$ be given. Let $k2_sheffer1 : \iota \Rightarrow \iota$ be given. Let $k6_lattices : \iota \Rightarrow \iota$ be given. Let $k1_sheffer1 : \iota \Rightarrow \iota$ be given. Let $k1_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge ((v6_lattices \\ & X0) \wedge ((v11_lattices X0) \wedge ((v7_robbins1 X0) \wedge ((v1_sheffer1 X0) \wedge \\ & ((v2_sheffer1 X0) \wedge ((v3_sheffer1 X0) \wedge ((v4_sheffer1 X0) \wedge (l3_lattices \\ & X0)))))))))) \Rightarrow (k5_lattices X0 = k2_sheffer1 X0) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge ((v6_lattices \\ & X0) \wedge ((v11_lattices X0) \wedge ((v7_robbins1 X0) \wedge ((v1_sheffer1 X0) \wedge \\ & ((v2_sheffer1 X0) \wedge ((v3_sheffer1 X0) \wedge ((v4_sheffer1 X0) \wedge (l3_lattices \\ & X0)))))))))) \Rightarrow (k6_lattices X0 = k1_sheffer1 X0) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l3_lattices X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 \\ & (u1_struct_0 X0)) \Rightarrow ((r1_sheffer1 X0 X1 X2) \Leftrightarrow ((k1_lattices X0 X2 \\ & X1 = k1_sheffer1 X0) \wedge ((k1_lattices X0 X1 X2 = k1_sheffer1 X0) \wedge ((\\ & k2_lattices X0 X2 X1 = k2_sheffer1 X0) \wedge (k2_lattices X0 X1 X2 = k2_sheffer1 \\ & X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l3_lattices X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\
& (u1_struct_0 X0)) \Rightarrow ((r2_lattices X0 X1 X2) \Leftrightarrow ((k1_lattices X0 X1 \\
& X2 = k6_lattices X0) \wedge ((k1_lattices X0 X2 X1 = k6_lattices X0) \wedge ((\\
& k2_lattices X0 X1 X2 = k5_lattices X0) \wedge (k2_lattices X0 X2 X1 = k5_lattices \\
& X0))))))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge ((v6_lattices \\
& X0) \wedge ((v11_lattices X0) \wedge ((v7_robbins1 X0) \wedge ((v1_sheffer1 X0) \wedge \\
& ((v2_sheffer1 X0) \wedge ((v3_sheffer1 X0) \wedge ((v4_sheffer1 X0) \wedge (l3_lattices \\
& X0)))))))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((r1_sheffer1 \\
& X0 X1 X2) \Leftrightarrow (r2_lattices X0 X1 X2))))
\end{aligned}$$