

t23_sheffer1 (TMZdr- rJRHCYMc6jNVcHX2dDLYTs2zHBHQ7r)

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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 $v16_lattices : \iota \Rightarrow o$ 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. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge ((v6_lattices \\ & X0) \wedge (v11_lattices X0) \wedge (v7_robbins1 X0) \wedge (v1_sheffer1 X0) \wedge \\ & ((v2_sheffer1 X0) \wedge (v3_sheffer1 X0) \wedge (v4_sheffer1 X0) \wedge (l3_lattices \\ & X0)))))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow \\ & (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((r1_sheffer1 \\ & X0 X1 X2) \Leftrightarrow (r2_lattices X0 X1 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l3_lattices X0)) \Rightarrow ((v4_sheffer1 \\ & X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\exists X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \wedge (r1_sheffer1 X0 X2 X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l3_lattices X0)) \Rightarrow ((v16_lattices \\ & X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\exists X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \wedge (r2_lattices X0 X2 X1)))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge ((v6_lattices \\ & X0) \wedge (v11_lattices X0) \wedge (v7_robbins1 X0) \wedge (v1_sheffer1 X0) \wedge \\ & ((v2_sheffer1 X0) \wedge (v3_sheffer1 X0) \wedge (v4_sheffer1 X0) \wedge (l3_lattices \\ & X0)))))) \Rightarrow (v16_lattices X0) \end{aligned}$$