

l50_jordan

(TMZPe21PMNyAqJSZan8HtmngiAvbWAptFnL)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_borsuk_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_borsuk_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_borsuk_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (((r1_borsuk_6 X0 X1 X2) \wedge (r1_borsuk_6 X0 X2 \\ & X3)) \Rightarrow (r1_borsuk_6 X0 X1 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_borsuk_2 X4 X0 X1 X2) \Rightarrow (\forall X5. \\ & (m1_borsuk_2 X5 X0 X2 X3) \Rightarrow (((r1_borsuk_6 X0 X1 X2) \wedge (r1_borsuk_6 \\ & X0 X2 X3)) \Rightarrow (k2_relset_1 (u1_struct_0 X0) (k1_borsuk_2 X0 X1 X2 X3 \\ & X4 X5) = k4_subset_1 (u1_struct_0 X0) (k2_relset_1 (u1_struct_0 \\ & X0) X4) (k2_relset_1 (u1_struct_0 X0) X5)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & (((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \wedge \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \wedge ((m1_subset_1 X2 (u1_struct_0 \\ & X0)) \wedge ((m1_subset_1 X3 (u1_struct_0 X0)) \wedge ((m1_borsuk_2 X4 X0 X1 \\ & X2) \wedge (m1_borsuk_2 X5 X0 X2 X3)))))) \Rightarrow (m1_borsuk_2 (k1_borsuk_2 \\ & X0 X1 X2 X3 X4 X5) X0 X1 X3) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow \\ & (\forall X5.(m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow (\forall X6.(m1_subset_1 \\ & X6 (u1_struct_0 X0)) \Rightarrow (\forall X7.(m1_borsuk_2 X7 X0 X1 X2) \Rightarrow (\forall X8. \\ & (m1_borsuk_2 X8 X0 X2 X3) \Rightarrow (\forall X9.(m1_borsuk_2 X9 X0 X3 X4) \Rightarrow \\ & (\forall X10.(m1_borsuk_2 X10 X0 X4 X5) \Rightarrow (\forall X11.(m1_borsuk_2 \\ & X11 X0 X5 X6) \Rightarrow (((r1_borsuk_6 X0 X1 X2) \wedge (r1_borsuk_6 X0 X2 X3) \wedge (\\ & (r1_borsuk_6 X0 X3 X4) \wedge (r1_borsuk_6 X0 X4 X5) \wedge (r1_borsuk_6 X0 \\ & X5 X6)))))) \Rightarrow (k2_relset_1 (u1_struct_0 X0) (k1_borsuk_2 X0 X1 X5 \\ & X6 (k1_borsuk_2 X0 X1 X4 X5 (k1_borsuk_2 X0 X1 X3 X4 (k1_borsuk_2 X0 \\ & X1 X2 X3 X7 X8) X9) X10) X11) = k4_subset_1 (u1_struct_0 X0) (k4_subset_1 \\ & (u1_struct_0 X0) (k4_subset_1 (u1_struct_0 X0) (k4_subset_1 (\\ & u1_struct_0 X0) (k2_relset_1 (u1_struct_0 X0) X7) (k2_relset_1 \\ & (u1_struct_0 X0) X8)) (k2_relset_1 (u1_struct_0 X0) X9)) (k2_relset_1 \\ & (u1_struct_0 X0) X10)) (k2_relset_1 (u1_struct_0 X0) X11)))))))))) \end{aligned}$$