l51_jordan (TMYnqLh4tZ64EMsZejhV3K8jposDASjJbqW)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $v1\_borsuk\_2 : \iota \Rightarrow o$ 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 $m1\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge ((v1\_borsuk\_2\ X0) \wedge (l1\_pre\_topc\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_borsuk\_2\ X4\ X0\ X1\ X2) \Rightarrow (\forall X5.(m1\_borsuk\_2\ X5\ X0\ X2\ X3) \Rightarrow (k2\_relset\_1\ (u1\_struct\_0\ X0)\ (k1\_borsuk\_2\ X0\ X1\ X2\ X3\ X4\ X5) = k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X4)\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X5)))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ (((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \wedge ((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \wedge ((m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \wedge ((m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \wedge ((m1\_borsuk\_2\ X4\ X0\ X1\ X2) \wedge (m1\_borsuk\_2\ X5\ X0\ X2\ X3)))))) \Rightarrow (m1\_borsuk\_2\ (k1\_borsuk\_2\ X0\ X1\ X2\ X3\ X4\ X5)\ X0\ X1\ X3) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge((v1\_borsuk\_2\ X0)\wedge(l1\_pre\_topc\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0))\Rightarrow(\forall X7.(m1\_borsuk\_2\ X7\ X0\ X1\ X2)\Rightarrow(\forall X8.(m1\_borsuk\_2\ X8\ X0\ X2\ X3)\Rightarrow(\forall X9.(m1\_borsuk\_2\ X9\ X0\ X3\ X4)\Rightarrow(\forall X10.(m1\_borsuk\_2\ X10\ X0\ X4\ X5)\Rightarrow(\forall X11.(m1\_borsuk\_2\ X11\ X0\ X5\ X6)\Rightarrow(k2\_relset\_1\ (u1\_struct\_0\ X0)\ (k1\_borsuk\_2\ X0\ X1\ X5\ X6\ (k1\_borsuk\_2\ X0\ X1\ X4\ X5\ (k1\_borsuk\_2\ X0\ X1\ X3\ X4\ (k1\_borsuk\_2\ X0\ X1\ X2\ X3\ X7\ X8)\ X9)\ X10)\ X11) = k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X7)\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X8))\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X9))\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X10))\ (k2\_relset\_1\ (u1\_struct\_0\ X0)\ X11))))))))))))$$