t29_graph_2 (TMXc23Yrka11QMmQdTBeHKv7jXMeiG9os5w)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r2\_graph\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_graph\_1 : \iota \Rightarrow \iota$ be given. Let $u2\_graph\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(r2\_graph\_1\ X0\ X1\ X2\ X3) \Leftrightarrow (((k1\_funct\_1\ (u1\_graph\_1\ X0)\ X3 = X1) \wedge (k1\_funct\_1\ (u2\_graph\_1\ X0)\ X3 = X2)) \vee (k1\_funct\_1\ (u1\_graph\_1\ X0)\ X3 = X2) \wedge (k1\_funct\_1\ (u2\_graph\_1\ X0)\ X3 = X1)))))) \tag{1}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(r2\_graph\_1\ X0\ X1\ X2\ X3) \Rightarrow (r2\_graph\_1\ X0\ X2\ X1\ X3))))$$