t4_graph_3 (TMbQKSLsqb4Z3mByZqDSsxfVVjy2Ypt89o1)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.v2\_funct\_1\ (k9\_finseq\_1\ X0) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ (X1 \in u4\_struct\_0\ X0) \Rightarrow ((v7\_graph\_1\ (k9\_finseq\_1\ X1)\ X0) \wedge (m1\_graph\_1\ (k9\_finseq\_1\ X1)\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ (m2\_graph\_1\ X1\ X0) \Leftrightarrow (m1\_graph\_1\ X1\ X0)) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ (X1 \in u4\_struct\_0\ X0) \Rightarrow ((v2\_funct\_1\ (k9\_finseq\_1\ X1)) \wedge (m2\_graph\_1\ (k9\_finseq\_1\ X1)\ X0)))$$