t24_graph_4 (TMG2oDBzagYSnt9YW8GroqXi43Fn24kXdFc)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $v7\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_graph\_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_graph\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ ((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow ((v2\_funct\_1\ X1) \wedge ((v7\_graph\_1\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ ((v7\_graph\_1\ X1\ X0) \wedge ((v1\_graph\_4\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow ((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ ((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow (\forall X2.((v7\_graph\_1\ X2\ X0) \wedge (m2\_graph\_1\ X2\ X0)) \Rightarrow ((X2 = X1) \Rightarrow (v1\_graph\_4\ X2\ X0)))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ ((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))) \Rightarrow ((((v7\_graph\_1\ X1\ X0) \wedge ((v1\_graph\_4\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow ((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)))) \wedge ((((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow ((v7\_graph\_1\ X1\ X0) \wedge ((v1\_graph\_4\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)))) \wedge (((v7\_graph\_1\ X1\ X0) \wedge ((v3\_graph\_2\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0))) \Rightarrow ((v2\_funct\_1\ X1) \wedge ((v7\_graph\_1\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)))))))$$