l82_graph_5 (TMHBiBEYd3SbXbgGnmuN5e77ijgPPYQ3v9r)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v6\_graph\_1 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $v7\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k6\_graph\_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_graph\_5 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_graph\_1\ X0)) \Rightarrow (\forall X1.\ ((v7\_graph\_1\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)) \Rightarrow (r1\_tarski\ (k6\_graph\_5\ X0\ X1)\ (k7\_graph\_5\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v6\_graph\_1\ X0) \wedge (l1\_graph\_1\ X0))) \Rightarrow (v1\_finset\_1\ (k7\_graph\_5\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (v1\_finset\_1\ X1)) \tag{4}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v6\_graph\_1\ X0) \wedge (l1\_graph\_1\ X0))) \Rightarrow (\forall X1.((v7\_graph\_1\ X1\ X0) \wedge (m2\_graph\_1\ X1\ X0)) \Rightarrow (v1\_finset\_1\ (k6\_graph\_5\ X0\ X1)))$$