t17_graph_4 (TMRP-MQE2JShAHfQF1WW7ApUVtFfeyPiB9xy)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $v7\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_graph\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_graph\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (l1\_graph\_1\ X1)) \Rightarrow (\forall X2.((v3\_graph\_2\ X2\ X1) \wedge (m2\_graph\_1\ X2\ X1)) \Rightarrow ((v3\_graph\_2\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1) \wedge (m2\_graph\_1\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1)))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (l1\_graph\_1\ X1)) \Rightarrow (\forall X2.((v7\_graph\_1\ X2\ X1) \wedge (m2\_graph\_1\ X2\ X1)) \Rightarrow ((v7\_graph\_1\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1) \wedge (m2\_graph\_1\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1)))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{4}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1) \wedge (v3\_ordinal1\ k4\_ordinal1) \tag{5}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{6}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{7}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (l1\_graph\_1\ X1)) \Rightarrow (\forall X2.((v7\_graph\_1\ X2\ X1) \wedge ((v3\_graph\_2\ X2\ X1) \wedge (m2\_graph\_1\ X2\ X1))) \Rightarrow ((v7\_graph\_1\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1) \wedge ((v3\_graph\_2\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1) \wedge (m2\_graph\_1\ (k2\_partfun1\ k5\_numbers\ (u4\_struct\_0\ X1)\ X2\ (k2\_finseq\_1\ X0))\ X1)))))$$