t33_polyform (TMZBz2HMXfUxAQvM6iaTKYB1Hq1bEhTwcZC)

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Let $v2\_polyform : \iota \Rightarrow o$ be given. Let $v3\_polyform : \iota \Rightarrow o$ be given. Let $v4\_polyform : \iota \Rightarrow o$ be given. Let $l1\_polyform : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k10\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_finseq\_1\ X0))) \Rightarrow ((v2\_funct\_1\ X0) \Leftrightarrow (k5\_card\_1\ (k10\_xtuple\_0\ X0) = k3\_finseq\_1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.((v2\_polyform\ X0) \wedge ((v3\_polyform\ X0) \wedge ((v4\_polyform\ X0) \wedge (l1\_polyform\ X0)))) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (k10\_xtuple\_0\ (k10\_polyform\ X0\ X1) = k8\_polyform\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.((v2\_polyform\ X0) \wedge ((v3\_polyform\ X0) \wedge ((v4\_polyform\ X0) \wedge (l1\_polyform\ X0)))) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (k3\_finseq\_1\ (k10\_polyform\ X0\ X1) = k11\_polyform\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((v2\_polyform\ X0) \wedge ((v3\_polyform\ X0) \wedge ((v4\_polyform\ X0) \wedge (l1\_polyform\ X0)))) \wedge (v1\_int\_1\ X1)) \Rightarrow ((v1\_relat\_1\ (k10\_polyform\ X0\ X1)) \wedge ((v1\_funct\_1\ (k10\_polyform\ X0\ X1)) \wedge (v1\_finseq\_1\ (k10\_polyform\ X0\ X1)))) \tag{4}$$

Assume the following.

$$\forall X0.((v2\_polyform\ X0) \wedge ((v3\_polyform\ X0) \wedge ((v4\_polyform\ X0) \wedge (l1\_polyform\ X0)))) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (k11\_polyform\ X0\ X1 = k5\_card\_1\ (k8\_polyform\ X0\ X1))) \tag{5}$$

Theorem 1

$$\forall X0.((v2\_polyform\ X0)\wedge((v3\_polyform\ X0)\wedge((v4\_polyform\ X0)\wedge(l1\_polyform\ X0))))\Rightarrow(\forall X1.(v1\_int\_1\ X1)\Rightarrow(v2\_funct\_1\ (k10\_polyform\ X0\ X1)))$$