t29_descip_1 (TMThQXFpmyKLjcyBuebisiy2SqF9FFjKKVp)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_16 : \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $np\_\_6 : \iota$ be given. Let $np\_\_7 : \iota$ be given. Let $np\_\_8 : \iota$ be given. Let $np\_\_9 : \iota$ be given. Let $np\_\_10 : \iota$ be given. Let $np\_\_11 : \iota$ be given. Let $np\_\_12 : \iota$ be given. Let $np\_\_13 : \iota$ be given. Let $np\_\_14 : \iota$ be given. Let $np\_\_15 : \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ X0) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ X0) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ X0) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ X0) \Rightarrow (\forall X7.(m1\_subset\_1\ X7\ X0) \Rightarrow (\forall X8.(m1\_subset\_1\ X8\ X0) \Rightarrow (\exists X9.(m2\_finseq\_1\ X9\ X0) \wedge ((v3\_card\_1\ X9\ np\_\_8) \wedge ((k1\_funct\_1\ X9\ np\_\_1 = X1) \wedge ((k1\_funct\_1\ X9\ np\_\_2 = X2) \wedge ((k1\_funct\_1\ X9\ np\_\_3 = X3) \wedge ((k1\_funct\_1\ X9\ np\_\_4 = X4) \wedge ((k1\_funct\_1\ X9\ np\_\_5 = X5) \wedge ((k1\_funct\_1\ X9\ np\_\_6 = X6) \wedge ((k1\_funct\_1\ X9\ np\_\_7 = X7) \wedge (k1\_funct\_1\ X9\ np\_\_8 = X8)))))))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m2\_finseq\_1\ X1\ X0)\Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0)\Rightarrow(((v3\_card\_1\ X1\ np\_\_8)\wedge(v3\_card\_1\ X2\ np\_\_8))\Rightarrow((v3\_card\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_16)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_1 = k1\_funct\_1\ X1\ np\_\_1)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_2 = k1\_funct\_1\ X1\ np\_\_2)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_3 = k1\_funct\_1\ X1\ np\_\_3)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_4 = k1\_funct\_1\ X1\ np\_\_4)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_5 = k1\_funct\_1\ X1\ np\_\_5)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_6 = k1\_funct\_1\ X1\ np\_\_6)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_7 = k1\_funct\_1\ X1\ np\_\_7)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_8 = k1\_funct\_1\ X1\ np\_\_8)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_9 = k1\_funct\_1\ X2\ np\_\_1)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_10 = k1\_funct\_1\ X2\ np\_\_2)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_11 = k1\_funct\_1\ X2\ np\_\_3)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_12 = k1\_funct\_1\ X2\ np\_\_4)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_13 = k1\_funct\_1\ X2\ np\_\_5)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_14 = k1\_funct\_1\ X2\ np\_\_6)\wedge((k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_15 = k1\_funct\_1\ X2\ np\_\_7)\wedge(k1\_funct\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ np\_\_16 = k1\_funct\_1\ X2\ np\_\_8))))))))))))))))))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_finseq\_1\ X1\ X0)\wedge(m1\_finseq\_1\ X2\ X0))\Rightarrow(m2\_finseq\_1\ (k8\_finseq\_1\ X0\ X1\ X2)\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0)\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ X0)\Rightarrow (\forall X4.(m1\_subset\_1\ X4\ X0)\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ X0)\Rightarrow (\forall X6.(m1\_subset\_1\ X6\ X0)\Rightarrow(\forall X7.(m1\_subset\_1\ X7\ X0)\Rightarrow (\forall X8.(m1\_subset\_1\ X8\ X0)\Rightarrow(\forall X9.(m1\_subset\_1\ X9\ X0)\Rightarrow (\forall X10.(m1\_subset\_1\ X10\ X0)\Rightarrow(\forall X11.(m1\_subset\_1\ X11\ X0)\Rightarrow(\forall X12.(m1\_subset\_1\ X12\ X0)\Rightarrow(\forall X13.(m1\_subset\_1\ X13\ X0)\Rightarrow(\forall X14.(m1\_subset\_1\ X14\ X0)\Rightarrow(\forall X15.(m1\_subset\_1\ X15\ X0)\Rightarrow(\forall X16.(m1\_subset\_1\ X16\ X0)\Rightarrow(\exists X17.(m2\_finseq\_1\ X17\ X0)\wedge((v3\_card\_1\ X17\ np\_\_16)\wedge((k1\_funct\_1\ X17\ np\_\_1 = X1)\wedge((k1\_funct\_1\ X17\ np\_\_2 = X2)\wedge((k1\_funct\_1\ X17\ np\_\_3 = X3)\wedge((k1\_funct\_1\ X17\ np\_\_4 = X4)\wedge((k1\_funct\_1\ X17\ np\_\_5 = X5)\wedge((k1\_funct\_1\ X17\ np\_\_6 = X6)\wedge((k1\_funct\_1\ X17\ np\_\_7 = X7)\wedge((k1\_funct\_1\ X17\ np\_\_8 = X8)\wedge((k1\_funct\_1\ X17\ np\_\_9 = X9)\wedge((k1\_funct\_1\ X17\ np\_\_10 = X10)\wedge((k1\_funct\_1\ X17\ np\_\_11 = X11)\wedge((k1\_funct\_1\ X17\ np\_\_12 = X12)\wedge((k1\_funct\_1\ X17\ np\_\_13 = X13)\wedge((k1\_funct\_1\ X17\ np\_\_14 = X14)\wedge((k1\_funct\_1\ X17\ np\_\_15 = X15)\wedge(k1\_funct\_1\ X17\ np\_\_16 = X16)))))))))))))))))))))))))))))))$$