l2_scmpds_6 (TMMdrX-jaSp3XkMv8oQitZgQb5DcvQ6KSmZS)

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Let $k6\_numbers : \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k4\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_scmpds\_2 : \iota$ be given. Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $k2\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k3\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $v2\_scmpds\_4 : \iota \Rightarrow o$ be given. Let $v3\_scmpds\_4 : \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_2 : \iota$ be given. Let $k2\_compos\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow (k6\_numbers \in k2\_afinsq\_1\ (k4\_compos\_1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v5\_ordinal1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_finset\_1\ X0)))) \Rightarrow (k2\_afinsq\_1\ X0 = k9\_xtuple\_0\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(v5\_ordinal1\ (k3\_afinsq\_1\ X0)) \wedge (v1\_finset\_1\ (k3\_afinsq\_1\ X0)) \tag{3}$$

Assume the following.

$$(v1\_relat\_1\ (k4\_compos\_1\ k1\_scmpds\_2)) \wedge ((v4\_relat\_1\ (k4\_compos\_1\ k1\_scmpds\_2)\ k5\_numbers) \wedge ((v5\_relat\_1\ (k4\_compos\_1\ k1\_scmpds\_2)\ (u1\_compos\_1\ k1\_scmpds\_2)) \wedge ((v1\_funct\_1\ (k4\_compos\_1\ k1\_scmpds\_2)) \wedge ((v1\_finset\_1\ (k4\_compos\_1\ k1\_scmpds\_2)) \wedge ((v2\_scmpds\_4\ (k4\_compos\_1\ k1\_scmpds\_2)) \wedge (v3\_scmpds\_4\ (k4\_compos\_1\ k1\_scmpds\_2))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0) \Rightarrow ((l1\_memstr\_0\ X1\ X0) \wedge (l1\_compos\_1\ X1)) \tag{5}$$

Assume the following.

$$(v1\_extpro\_1\ k1\_scmpds\_2\ np\_\_2) \wedge (l1\_extpro\_1\ k1\_scmpds\_2\ np\_\_2) \quad (6)$$

Assume the following.

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow (k4\_compos\_1\ X0 = k3\_afinsq\_1\ (k2\_compos\_1\ X0)) \quad (7)$$

Theorem 1 $k6\_numbers \in k9\_xtuple\_0\ (k4\_compos\_1\ k1\_scmpds\_2)$.