

## t21\_scmpds\_5

(TMMWe1Ln5iT x3hKC3JH5ciagTuzvUauM8HK)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $v6\_compos\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_scmpds\_2 : \iota \Rightarrow \iota$  be given. Let  $u1\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmpds\_2 : \iota$  be given. Let  $l1\_compos\_1 : \iota \Rightarrow o$  be given. Let  $k2\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_14 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v2\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v3\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v5\_compos\_0 : \iota \Rightarrow o$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $k6\_compos\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(l1\_compos\_1 X0) \Rightarrow (k2\_compos\_0 (u1\_compos\_1 X0) (k2\_compos\_1 X0) = k6\_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (k2\_compos\_0 (u1\_compos\_1 k1\_scmpds\_2) (k3\_scmpds\_2 X0) = np\_14) \quad (2)$$

Assume the following.

$$\neg v1\_xboole\_0 np\_14 \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (5)$$

Assume the following.

$$\forall X0.(l1\_compos\_1 X0) \Rightarrow ((v1\_compos\_0 (u1\_compos\_1 X0)) \wedge ((v2\_compos\_0 (u1\_compos\_1 X0)) \wedge ((v3\_compos\_0 (u1\_compos\_1 X0)) \wedge (v5\_compos\_0 (u1\_compos\_1 X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1 X1 X0)\Rightarrow((l1\_memstr\_0 X1 X0)\wedge(l1\_compos\_1 X1)) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0)\Rightarrow(m1\_subset\_1 (k3\_scmpds\_2 X0) (u1\_compos\_1 k1\_scmpds\_2)) \quad (8)$$

Assume the following.

$$(v1\_extpro\_1 k1\_scmpds\_2 np\_2)\wedge(l1\_extpro\_1 k1\_scmpds\_2 np\_2) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0)\wedge((v1\_compos\_0 X0)\wedge((v2\_compos\_0 X0)\wedge((v3\_compos\_0 X0)\wedge(v5\_compos\_0 X0))))))\Rightarrow(\forall X1.(m1\_subset\_1 X1 X0)\Rightarrow((v6\_compos\_0 X1 X0)\Leftrightarrow(X1\neq k6\_compos\_0 X0))) \quad (10)$$

Assume the following.

$$\forall X0.(l1\_compos\_1 X0)\Rightarrow(k2\_compos\_1 X0 = k6\_compos\_0 (u1\_compos\_1 X0)) \quad (11)$$

Assume the following.

$$\forall X0.(v5\_compos\_0 X0)\Rightarrow(\neg v1\_xboole\_0 X0) \quad (12)$$

**Theorem 1**

$$\forall X0.(v1\_int\_1 X0)\Rightarrow(v6\_compos\_0 (k3\_scmpds\_2 X0) (u1\_compos\_1 k1\_scmpds\_2))$$