

t3\_scmp\_gcd (TMN-  
PzaB4gtsmdNbYHS1LWUwE3VJYhz1VzoB)

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Let  $k2\_scmp\_gcd : \iota$  be given. Let  $k3\_scmp\_gcd : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k10\_ami\_3 : \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_scmp\_gcd : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\neg (X0 \neq X1) \wedge (k10\_ami\_3 X0 = k10\_ami\_3 X1))) \quad (2)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (3)$$

Assume the following.

$$\neg v1\_xboole\_0 np\_1 \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (6)$$

Assume the following.

$$\exists X0.(v1\_xboole\_0 X0) \wedge ((v1\_xcmplx\_0 X0) \wedge ((v1\_xxreal\_0 X0) \wedge (v1\_xreal\_0 X0))) \quad (7)$$

Assume the following.

$$k3\_scmp\_gcd = k1\_scmp\_gcd \text{ } np\_1 \quad (8)$$

Assume the following.

$$k2\_scmp\_gcd = k1\_scmp\_gcd \text{ } k6\_numbers \quad (9)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 \text{ } X0) \Rightarrow (k1\_scmp\_gcd \text{ } X0 = k10\_ami\_3 \text{ } X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \text{ } X0 \text{ } k4\_ordinal1) \Rightarrow (v7\_ordinal1 \text{ } X0) \quad (11)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \text{ } X0) \Rightarrow (v7\_ordinal1 \text{ } X0) \quad (12)$$

**Theorem 1**  $k2\_scmp\_gcd \neq k3\_scmp\_gcd$ .