

## t27\_int\_5

(TMc5cmF7nFpcehNw89wSSDEP1HYCkhJ5aR8)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_int\_2 : \iota \Rightarrow o$  be given. Let  $k2\_int\_5 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $r1\_int\_5 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_pepin : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  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  $np\_0 : \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (r1\_int\_5 (k1\_pepin X0) X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow ((\neg r1\_xxreal\_0 X0 np\_1) \Rightarrow (k4\_nat\_d np\_1 X0 = np\_1)) \quad (3)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (4)$$

Assume the following.

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

Assume the following.

$$k3\_xcmplx\_0 np\_1 np\_1 = np\_1 \quad (6)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (7)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(v7\_ordinal1 X1))\Rightarrow( \quad (9)$$

$$k4\_nat\_d X0 X1 = k6\_int\_1 X0 X1)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0)\Rightarrow(k1\_pepin X0 = k3\_square\_1 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow((v1\_int\_2 X0)\Leftrightarrow((\neg r1\_xxreal\_0 X0$$

$$np\_1)\wedge(\forall X1.(v7\_ordinal1 X1)\Rightarrow(\neg(r1\_int\_1 X1 X0)\wedge((X1\neq$$

$$np\_1)\wedge(X1\neq X0)))))) \quad (11)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0)\Rightarrow(\forall X1.((v7\_ordinal1 X1)\wedge(v1\_int\_2$$

$$X1))\Rightarrow(((r1\_int\_5 X0 X1)\Rightarrow((k6\_int\_1 X0 X1 = k6\_numbers)\vee(k2\_int\_5$$

$$X0 X1 = np\_1)))\wedge(((r1\_int\_5 X0 X1)\wedge(k6\_int\_1 X0 X1 = k6\_numbers))\Rightarrow$$

$$(k2\_int\_5 X0 X1 = k6\_numbers))\wedge(\neg(\neg(r1\_int\_5 X0 X1)\wedge(k6\_int\_1$$

$$X0 X1\neq k6\_numbers))\wedge(\neg(r1\_int\_5 X0 X1)\wedge(k6\_int\_1 X0 X1 = k6\_numbers))\wedge$$

$$(k2\_int\_5 X0 X1\neq k4\_xcmplx\_0 np\_1)))))) \quad (12)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0)\Rightarrow(k3\_square\_1 X0 = k3\_xcmplx\_0 X0 X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1)\Rightarrow(v7\_ordinal1 X0) \quad (14)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow(v1\_int\_1 X0) \quad (15)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xcmplx\_0 X0) \quad (16)$$

**Theorem 1**

$$\forall X0.((v7\_ordinal1 X0)\wedge(v1\_int\_2 X0))\Rightarrow(k2\_int\_5 np\_1$$

$$X0 = np\_1)$$