

t13\_int\_2 (TMF<sub>vmBN-</sub>  
rxm71Vy9oqZAwcQ2P2VTUsRm2aYN)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\neg(r1\_int\_1 X0 X1) \wedge ((r1\_int\_1 X1 X0) \wedge ((X0 \neq X1) \wedge (X0 \neq k4\_xcmplx\_0 X1)))))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((r1\_int\_1 X0 k6\_numbers) \wedge ((r1\_int\_1 np\_1 X0) \wedge (r1\_int\_1 (k4\_xcmplx\_0 np\_1) X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow ((r1\_int\_1 X0 X1) \Leftrightarrow (r1\_int\_1 X0 (k4\_xcmplx\_0 X1)))) \quad (3)$$

Assume the following.

$$np\_1 \in k4\_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Leftrightarrow (X0 \in k4\_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_int\_1 X0) \quad (6)$$

**Theorem 1**

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\neg((r1\_int\_1 X0 np\_1) \vee (r1\_int\_1 X0 (k4\_xcmplx\_0 np\_1))) \wedge ((X0 \neq np\_1) \wedge (X0 \neq k4\_xcmplx\_0 np\_1)))$$