

t18\_gr\_cy\_3  
(TMHqmPYd5h8Z9wK6yrDjdBc7wPTcgP7XVA1)

October 27, 2020

Let  $k1\_gr\_cy\_3 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_3 : \iota$  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  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k13\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 \ np\_2) \wedge (m2\_subset\_1 \ np\_2 \ k1\_numbers \ k5\_numbers)) \wedge \\ & ((m1\_subset\_1 \ np\_2 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_2 \ k1\_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k6\_xcmplx\_0 \ np\_4 \ np\_1 = np\_3 \quad (2)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ k1\_numbers) \wedge (v7\_ordinal1 \ X1)) \Rightarrow (k2\_newton \ X0 \ X1 = k1\_newton \ X0 \ X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ k5\_numbers) \wedge (m1\_subset\_1 \ X1 \ k5\_numbers)) \Rightarrow (k13\_newton \ X0 \ X1 = k1\_newton \ X0 \ X1) \quad (5)$$

Assume the following.

$$k13\_newton \ np\_2 \ np\_2 = np\_4 \quad (6)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 \ X0) \Rightarrow (k1\_gr\_cy\_3 \ X0 = k6\_xcmplx\_0 \ (k2\_newton \ np\_2 \ X0) \ np\_1) \quad (7)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k4\_ordinal1) \Rightarrow (v7\_ordinal1 \ X0) \quad (8)$$

**Theorem 1**  $k1\_gr\_cy\_3\ np\_2 = np\_3$ .