

t29\_gr\_cy\_3  
(TMZWKp3wR81MZsZ6KJD7AgmX22iLFzK7azu)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_gr\_cy\_3 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_2 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  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  $k4\_ordinal1 : \iota$  be given. Let  $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (( \\ (v7\_ordinal1\ (k6\_xcmplx\_0\ (k1\_newton\ X0\ X1)\ np\_1)) \wedge (v1\_int\_2 \\ (k6\_xcmplx\_0\ (k1\_newton\ X0\ X1)\ np\_1))) \Rightarrow ((r1\_xxreal\_0\ X1\ np\_1) \vee \\ ((X0 = np\_2) \wedge ((v7\_ordinal1\ X1) \wedge (v1\_int\_2\ X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0\ np\_2) \wedge (m2\_subset\_1\ np\_2\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_2\ k1\_numbers)) \end{aligned} \quad (2)$$

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.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k1\_gr\_cy\_3\ X0 = k6\_xcmplx\_0\ (k2\_newton\ np\_2\ X0)\ np\_1) \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \quad (6)$$

**Theorem 1**

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(((v7\_ordinal1\ (k1\_gr\_cy\_3\ X0))\wedge (v1\_int\_2\ (k1\_gr\_cy\_3\ X0)))\Rightarrow((r1\_xxreal\_0\ X0\ np\_1)\vee((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))))$$