

t71\_xcplx\_1  
(TMK9qzm1Xz81ZYb6Pq5mCh15nf4jeu74LY5)

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Let  $v1\_xcplx\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k3\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  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. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow (\forall X2. \\ (v1\_xcplx\_0 X2) \Rightarrow (k2\_xcplx\_0 (k7\_xcplx\_0 X0 X1) (k7\_xcplx\_0 \\ X2 X1) = k7\_xcplx\_0 (k2\_xcplx\_0 X0 X2) X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (k3\_xcplx\_0 np\_2 X0 = k2\_xcplx\_0 X0 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_4) \wedge (m2\_subset\_1 np\_4 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_4 k5\_numbers) \wedge (m1\_subset\_1 np\_4 k1\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$k7\_xcplx\_0 np\_4 np\_2 = np\_2 \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow (\forall X2. \\ (v1\_xcplx\_0 X2) \Rightarrow (k7\_xcplx\_0 X0 (k7\_xcplx\_0 X1 X2) = k7\_xcplx\_0 \\ (k3\_xcplx\_0 X0 X2) X1))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 X0)\wedge(v1\_xcmplx\_0 X1))\Rightarrow(k3\_xcmplx\_0 X0 X1 = k3\_xcmplx\_0 X1 X0) \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xcmplx\_0 X0) \quad (8)$$

**Theorem 1**

$$\forall X0.(v1\_xcmplx\_0 X0)\Rightarrow(k2\_xcmplx\_0 (k7\_xcmplx\_0 X0 np\_4) (k7\_xcmplx\_0 X0 np\_4) = k7\_xcmplx\_0 X0 np\_2)$$