

t107\_xcplx\_1  
(TMTvVPJck7Cn5jSQhLzp65LspBwRbWYDzPZ)

October 27, 2020

Let  $v1\_xcplx\_0 : \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k3\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow (k3\_xcplx\_0 X0 (k7\_xcplx\_0 np\_1 X1) = k7\_xcplx\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (X1 = k7\_xcplx\_0 (k3\_xcplx\_0 X1 X0) X0))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcplx\_0 X0) \wedge (v1\_xcplx\_0 X1)) \Rightarrow (v1\_xcplx\_0 (k3\_xcplx\_0 X0 X1)) \quad (3)$$

**Theorem 1**

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (X1 = k3\_xcplx\_0 (k3\_xcplx\_0 X1 X0) (k7\_xcplx\_0 np\_1 X0))))$$