

# l216\_xcplx\_1

(TMTobyzHL9YRa3qqT6SVJisyC7jEjn7j22V)

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Let  $v1\_xcplx\_0 : \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k5\_xcplx\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_xcplx\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\neg(k3\_xcplx\_0 X0 X0 = np\_1) \wedge ((X0 \neq np\_1) \wedge (X0 \neq k4\_xcplx\_0 np\_1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow ((X1 = k5\_xcplx\_0 X0) \Leftrightarrow (k3\_xcplx\_0 X0 X1 = np\_1)))) \wedge ((X0 = k6\_numbers) \Rightarrow ((X1 = k5\_xcplx\_0 X0) \Leftrightarrow (X1 = k6\_numbers)))) \quad (2)$$

## Theorem 1

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge ((X0 = k5\_xcplx\_0 X0) \wedge ((X0 \neq np\_1) \wedge (X0 \neq k4\_xcplx\_0 np\_1))))$$