

# t57\_complex1

(TMGagodR29NKNuac6h9Ur4cScCi8rudjhFT)

October 27, 2020

Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k17\_complex1 : \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (r1\_xxreal\_0 (k17\_complex1 (k2\_xcmplx\_0 X0 X1)) (k7\_real\_1 (k17\_complex1 X0) (k17\_complex1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k17\_complex1 (k4\_xcmplx\_0 X0) = k17\_complex1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (v1\_xcmplx\_0 (k4\_xcmplx\_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (k6\_xcmplx\_0 X0 X1 = k2\_xcmplx\_0 X0 (k4\_xcmplx\_0 X1))) \quad (4)$$

**Theorem 1**

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (r1\_xxreal\_0 (k17\_complex1 (k6\_xcmplx\_0 X0 X1)) (k7\_real\_1 (k17\_complex1 X0) (k17\_complex1 X1))))$$