

# l7\_complex1

## (TMLm1ub7ghm1oyDnbofKnHMBxviev1Xnhs3)

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Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k5\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_complex1 : \iota \Rightarrow \iota$  be given. Let  $k4\_complex1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\exists X0.v1\_xcmplx\_0 X0 \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k1\_numbers) \Rightarrow ((k3\_complex1 (k5\_arytm\_0 X0 X1) = X0) \wedge (k4\_complex1 (k5\_arytm\_0 X0 X1) = X1))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (m1\_subset\_1 (k3\_complex1 X0) k1\_numbers) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (\forall X2.(X2 = k2\_xcmplx\_0 X0 X1) \Leftrightarrow (\exists X3.(m1\_subset\_1 X3 k1\_numbers) \wedge (\exists X4.(m1\_subset\_1 X4 k1\_numbers) \wedge (\exists X5.(m1\_subset\_1 X5 k1\_numbers) \wedge (\exists X6.(m1\_subset\_1 X6 k1\_numbers) \wedge ((X0 = k5\_arytm\_0 X3 X4) \wedge ((X1 = k5\_arytm\_0 X5 X6) \wedge (X2 = k5\_arytm\_0 (k1\_arytm\_0 X3 X5) (k1\_arytm\_0 X4 X6)))))))))) \tag{4}$$

### Theorem 1

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k5\_arytm\_0 (k3\_complex1 X0) (k4\_complex1 X0) = X0)$$