

t62\_comp trig  
(TMKdn2vA5BuzBKCprkFk7Dn8xoAHhhn2Jab)

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Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k17\_complex1 : \iota \Rightarrow \iota$  be given. Let  $k21\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k1\_comp trig : \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k18\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k7\_complex1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xcmplx\_0 : \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $k32\_sin\_cos : \iota$  be given. Assume the following.

$$k17\_complex1 \ k6\_numbers = k6\_numbers \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 \ X0) \Rightarrow (k3\_xcmplx\_0 \ X0 \ k6\_numbers = k6\_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 \ X0) \Rightarrow (k2\_xcmplx\_0 \ X0 \ k6\_numbers = X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 \ X0 \ k1\_numbers) \wedge (v1\_xreal\_0 \ X1)) \Rightarrow (k8\_real\_1 \ X0 \ X1 = k3\_xcmplx\_0 \ X0 \ X1) \quad (4)$$

Assume the following.

$$k7\_complex1 = k1\_xcmplx\_0 \quad (5)$$

Assume the following.

$$v1\_xcmplx\_0 \ k1\_xcmplx\_0 \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (m1\_subset\_1 \ (k21\_sin\_cos \ X0) \ k1\_numbers) \quad (7)$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (m1\_subset\_1 (k18\_sin\_cos X0) k1\_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (m1\_subset\_1 (k17\_complex1 X0) k1\_numbers) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k1\_numbers) \Rightarrow \\ & (((X0 \neq k6\_numbers) \Rightarrow ((X1 = k1\_comptrig X0) \Leftrightarrow ((X0 = k2\_xcmplx\_0 ( \\ & k8\_real\_1 (k17\_complex1 X0) (k21\_sin\_cos X1)) (k3\_xcmplx\_0 (k8\_real\_1 \\ & (k17\_complex1 X0) (k18\_sin\_cos X1)) k7\_complex1)) \wedge ((r1\_xxreal\_0 \\ & k6\_numbers X1) \wedge (\neg r1\_xxreal\_0 (k8\_real\_1 np\_2 k32\_sin\_cos X1)))))) \wedge \\ & ((X0 = k6\_numbers) \Rightarrow ((X1 = k1\_comptrig X0) \Leftrightarrow (X1 = k6\_numbers)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (k3\_xcmplx\_0 X0 X1 = k3\_xcmplx\_0 X1 X0) \quad (12)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xcmplx\_0 X0) \quad (14)$$

**Theorem 1**

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (X0 = k2\_xcmplx\_0 (k8\_real\_1 (k17\_complex1 X0) (k21\_sin\_cos (k1\_comptrig X0))) (k3\_xcmplx\_0 (k8\_real\_1 (k17\_complex1 X0) (k18\_sin\_cos (k1\_comptrig X0))) k7\_complex1))$$