

t5\_sin\_cos4 (TMN-  
jzXgf1EhMXASqSsyr1TV7EtWYKjW5qum)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k20\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k17\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k3\_xcmplx\_0 (k17\_sin\_cos X0) (k17\_sin\_cos X0) = k6\_xcmplx\_0 np\_1 (k3\_xcmplx\_0 (k20\_sin\_cos X0) (k20\_sin\_cos X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (k6\_xcmplx\_0 X0 (k6\_xcmplx\_0 X0 X1) = X1)) \quad (2)$$

Assume the following.

$$m1\_subset\_1 np\_1 k1\_numbers \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xreal\_0 (k20\_sin\_cos X0)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (v1\_xcmplx\_0 (k3\_xcmplx\_0 X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xcmplx\_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xcmplx\_0 X0) \quad (7)$$

**Theorem 1**

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k3\_xcmplx\_0 (k20\_sin\_cos X0) (k20\_sin\_cos X0) = k6\_xcmplx\_0 np\_1 (k3\_xcmplx\_0 (k17\_sin\_cos X0) (k17\_sin\_cos X0)))$$