t4_sin_cos6 (TMYx4g5gQa9RFNHYMYpMoGjo4SjAYffDvRP)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k18\_complex1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k17\_complex1 : \iota \Rightarrow \iota$ be given. Let $k15\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_complex1 : \iota$ be given. Let $k20\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (((r1\_xxreal\_0\ (k4\_xcmplx\_0\ X0)\ X1) \wedge (r1\_xxreal\_0\ X1\ X0)) \Leftrightarrow (r1\_xxreal\_0\ (k18\_complex1\ X1)\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((k17\_complex1\ (k15\_sin\_cos\ (k3\_xcmplx\_0\ X0\ k7\_complex1)) = np\_\_1) \wedge (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ (k18\_complex1\ (k17\_sin\_cos\ X1))\ np\_\_1) \wedge (r1\_xxreal\_0\ (k18\_complex1\ (k20\_sin\_cos\ X1))\ np\_\_1)))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xreal\_0\ (k17\_sin\_cos\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{5}$$

Theorem 1 $\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (r1\_xxreal\_0\ (k17\_sin\_cos\ X0)\ np\_\_1)$.