# t10_complex2 (TMS8zjX5HLbrZWAy5W6SXFZ5v6n3sEc72NK)

October 27, 2020

Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k17\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k20\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k2\_xcmplx\_0\ (k3\_square\_1\ (k20\_sin\_cos\ X0))\ (k3\_square\_1\ (k17\_sin\_cos\ X0)) = np\_\_1) \wedge (k2\_xcmplx\_0\ (k3\_xcmplx\_0\ (k20\_sin\_cos\ X0)\ (k20\_sin\_cos\ X0))\ (k3\_xcmplx\_0\ (k17\_sin\_cos\ X0)\ (k17\_sin\_cos\ X0)) = np\_\_1)) \tag{2}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{3}$$

Assume the following.

$$k3\_xcmplx\_0\ np\_\_0\ np\_\_0 = np\_\_0 \tag{4}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_0\ np\_\_0 = np\_\_0 \tag{5}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{6}$$

**Theorem 1**

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\neg(k17\_sin\_cos\ X0 = k6\_numbers) \wedge (k20\_sin\_cos\ X0 = k6\_numbers))$$