t49_sin_cos (TMb5QquySmVaWCfWhFTVepodK9hNSYq8CsP)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k15\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k26\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k25\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k14\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k11\_comseq\_3 : \iota \Rightarrow \iota$ be given. Let $k3\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k4\_series\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k24\_sin\_cos : \iota$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_sin\_cos : \iota$ be given. Let $k2\_numbers : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k26\_sin\_cos\ X0 = k25\_sin\_cos\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k15\_sin\_cos\ X0 = k14\_sin\_cos\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k11\_comseq\_3\ (k3\_sin\_cos\ X0) = k4\_series\_1\ (k4\_sin\_cos\ X0)) \tag{3}$$

Assume the following.

$$(v1\_funct\_1\ k24\_sin\_cos) \wedge ((v1\_funct\_2\ k24\_sin\_cos\ k1\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ k24\_sin\_cos\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \tag{4}$$

Assume the following.

$$(v1\_funct\_1\ k13\_sin\_cos) \wedge ((v1\_funct\_2\ k13\_sin\_cos\ k2\_numbers\ k2\_numbers) \wedge (m1\_subset\_1\ k13\_sin\_cos\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k2\_numbers\ k2\_numbers)))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k25\_sin\_cos\ X0 = k1\_seq\_1\ k24\_sin\_cos\ X0) \tag{6}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k1\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))))) \Rightarrow ((X0 = k24\_sin\_cos) \Leftrightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (k1\_seq\_1\ X0\ X1 = k4\_series\_1\ (k4\_sin\_cos\ X1)))) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k14\_sin\_cos\ X0 = k1\_funct\_1\ k13\_sin\_cos\ X0) \tag{8}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k2\_numbers\ k2\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k2\_numbers\ k2\_numbers))))) \Rightarrow ((X0 = k13\_sin\_cos) \Leftrightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k1\_funct\_1\ X0\ X1 = k11\_comseq\_3\ (k3\_sin\_cos\ X1)))) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{11}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k15\_sin\_cos\ X0 = k26\_sin\_cos\ X0)$$