

## t48\_sin\_cos

(TMPoweY8iaKjVy9NvP49f2Z4hVBgLawDX17)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k24\_sin\_cos : \iota$  be given. Let  $k3\_complex1 : \iota \Rightarrow \iota$  be given. Let  $k11\_comseq\_3 : \iota \Rightarrow \iota$  be given. Let  $k3\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $v1\_series\_1 : \iota \Rightarrow o$  be given. Let  $k4\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k4\_series\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  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  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow ((v1\_series\_1 (k4\_sin\_cos X0)) \wedge (k4\_series\_1 (k4\_sin\_cos X0) = k3\_complex1 (k11\_comseq\_3 (k3\_sin\_cos X0)))) \quad (1)$$

Assume the following.

$$(v1\_funct\_1 k24\_sin\_cos) \wedge ((v1\_funct\_2 k24\_sin\_cos k1\_numbers k1\_numbers) \wedge (m1\_subset\_1 k24\_sin\_cos (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \quad (2)$$

Assume the following.

$$\forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k1\_numbers k1\_numbers) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow ((X0 = k24\_sin\_cos) \Leftrightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (k1\_seq\_1 X0 X1 = k4\_series\_1 (k4\_sin\_cos X1)))) \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (4)$$

### Theorem 1

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (k1\_seq\_1 k24\_sin\_cos X0 = k3\_complex1 (k11\_comseq\_3 (k3\_sin\_cos X0)))$$