

t66\_sin\_cos6  
(TMSfVG9WiauUf6uwsdNiaTvUonKyDt6payJ)

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Let  $k4\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k16\_sin\_cos : \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k32\_sin\_cos : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k1\_sin\_cos6 : \iota$  be given. Let  $k6\_partfun1 : \iota \Rightarrow \iota$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_funct\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$k2\_relset\_1 \ k1\_numbers \ k1\_sin\_cos6 = k1\_rcomp\_1 \ (k1\_real\_1 \ (k10\_real\_1 \ k32\_sin\_cos \ np\_2)) \ (k10\_real\_1 \ k32\_sin\_cos \ np\_2) \quad (1)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 \ X0) \wedge (v1\_funct\_1 \ X0)) \Rightarrow ((v2\_funct\_1 \ X0) \Rightarrow ((k3\_relat\_1 \ X0 \ (k2\_funct\_1 \ X0) = k4\_relat\_1 \ (k9\_xtuple\_0 \ X0)) \wedge (k3\_relat\_1 \ (k2\_funct\_1 \ X0) \ X0 = k4\_relat\_1 \ (k10\_xtuple\_0 \ X0)))) \quad (2)$$

Assume the following.

$$\forall X0. k6\_partfun1 \ X0 = k4\_relat\_1 \ X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. ((m1\_subset\_1 \ X4 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X0 \ X1))) \wedge (m1\_subset\_1 \ X5 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X2 \ X3)))) \Rightarrow (k4\_relset\_1 \ X0 \ X1 \ X2 \ X3 \ X4 \ X5 = k3\_relat\_1 \ X4 \ X5) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1 X1)\wedge(v5\_relat\_1 X1 X0))\Rightarrow(k2\_relset\_1 X0 X1 = k10\_xtuple\_0 X1) \quad (5)$$

Assume the following.

$$k2\_funct\_1 k1\_sin\_cos6 = k5\_relset\_1 k1\_numbers k1\_numbers k16\_sin\_cos (k1\_rcomp\_1 (k1\_real\_1 (k10\_real\_1 k32\_sin\_cos np\_2)) (k10\_real\_1 k32\_sin\_cos np\_2)) \quad (6)$$

Assume the following.

$$(v1\_funct\_1 k1\_sin\_cos6)\wedge(v2\_funct\_1 k1\_sin\_cos6) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow(m1\_subset\_1 (k5\_relset\_1 X0 X1 X2 X3) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \quad (8)$$

Assume the following.

$$(v1\_funct\_1 k1\_sin\_cos6)\wedge(m1\_subset\_1 k1\_sin\_cos6 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers))) \quad (9)$$

Assume the following.

$$(v1\_funct\_1 k16\_sin\_cos)\wedge((v1\_funct\_2 k16\_sin\_cos k1\_numbers k1\_numbers)\wedge(m1\_subset\_1 k16\_sin\_cos (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow((v4\_relat\_1 X2 X0)\wedge(v5\_relat\_1 X2 X1)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow(v1\_relat\_1 X2) \quad (12)$$

### Theorem 1

$$k4\_relset\_1 k1\_numbers k1\_numbers k1\_numbers k1\_numbers (k5\_relset\_1 k1\_numbers k1\_numbers k16\_sin\_cos (k1\_rcomp\_1 (k1\_real\_1 (k10\_real\_1 k32\_sin\_cos np\_2)) (k10\_real\_1 k32\_sin\_cos np\_2))) k1\_sin\_cos6 = k6\_partfun1 (k1\_rcomp\_1 (k1\_real\_1 (k10\_real\_1 k32\_sin\_cos np\_2)) (k10\_real\_1 k32\_sin\_cos np\_2))$$