

t67\_sin\_cos6 (TMRbpoW-  
PSBz7F3Je4WkDHsWPnWqEYXXwkDs)

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Let  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  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  $k4\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & k4\_relset\_1 \ k1\_numbers \ k1\_numbers \ k1\_numbers \ k1\_numbers \ (k5\_relset\_1 \\
 & \ k1\_numbers \ k1\_numbers \ k16\_sin\_cos \ (k1\_rcomp\_1 \ (k1\_real\_1 \ (k10\_real\_1 \\
 & \ \ k32\_sin\_cos \ np\_2)) \ (k10\_real\_1 \ k32\_sin\_cos \ np\_2))) \ k1\_sin\_cos6 = \\
 & \ k6\_partfun1 \ (k1\_rcomp\_1 \ (k1\_real\_1 \ (k10\_real\_1 \ k32\_sin\_cos \ np\_2))) \\
 & \ \ (k10\_real\_1 \ k32\_sin\_cos \ np\_2))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & \ ((m1\_subset\_1 \ X4 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X0 \ X1))) \wedge (m1\_subset\_1 \\
 & \ X5 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X2 \ X3)))) \Rightarrow (k4\_relset\_1 \ X0 \ X1 \ X2 \ X3 \\
 & \ \ X4 \ X5 = k3\_relat\_1 \ X4 \ X5)
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. (m1\_subset\_1 \ X2 \ ( \\
 & \ k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X0 \ X1))) \Rightarrow (m1\_subset\_1 \ (k5\_relset\_1 \\
 & \ \ X0 \ X1 \ X2 \ X3) \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ X0 \ X1)))
 \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
 & (v1\_funct\_1 \ k1\_sin\_cos6) \wedge (m1\_subset\_1 \ k1\_sin\_cos6 \ (k1\_zfmisc\_1 \\
 & \ \ (k2\_zfmisc\_1 \ k1\_numbers \ k1\_numbers)))
 \end{aligned} \tag{4}$$

Assume the following.

$$(v1\_funct\_1\ k16\_sin\_cos) \wedge ((v1\_funct\_2\ k16\_sin\_cos\ k1\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ k16\_sin\_cos\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \quad (5)$$

Assume the following.

$$k1\_sin\_cos6 = k2\_partfun2\ k1\_numbers\ k1\_numbers\ (k5\_relset\_1\ k1\_numbers\ k1\_numbers\ k16\_sin\_cos\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_2))\ (k10\_real\_1\ k32\_sin\_cos\ np\_2))) \quad (6)$$

**Theorem 1**

$$k3\_relat\_1\ (k5\_relset\_1\ k1\_numbers\ k1\_numbers\ k16\_sin\_cos\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_2))\ (k10\_real\_1\ k32\_sin\_cos\ np\_2)))\ k1\_sin\_cos6 = k6\_partfun1\ (k1\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_2))\ (k10\_real\_1\ k32\_sin\_cos\ np\_2))$$