

# l20\_sin\_cos9 (TMQsFXvRUh- fwSC382Ugh4cRMza3euHGNGuP)

October 27, 2020

Let  $k2\_funct\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_sin\_cos9 : \iota$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k30\_sin\_cos : \iota$  be given. Let  $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k32\_sin\_cos : \iota$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow ((v2\_funct\_1 X0) \Rightarrow (k2\_funct\_1 (k2\_funct\_1 X0) = X0)) \quad (1)$$

Assume the following.

$$v2\_funct\_1 (k2\_partfun1 k1\_numbers k1\_numbers k30\_sin\_cos (k2\_rcomp\_1 k6\_numbers k32\_sin\_cos)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1\_funct\_1 X2) \wedge ((v2\_funct\_1 X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))))) \Rightarrow (k2\_partfun2 X0 X1 X2 = k2\_funct\_1 X2) \quad (3)$$

Assume the following.

$$(v1\_funct\_1 k30\_sin\_cos) \wedge (m1\_subset\_1 k30\_sin\_cos (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((v1\_funct\_1 X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))) \Rightarrow ((v1\_funct\_1 (k2\_partfun1 X0 X1 X2 X3)) \wedge (m1\_subset\_1 (k2\_partfun1 X0 X1 X2 X3) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))) \quad (5)$$

Assume the following.

$$\begin{aligned} k2\_sin\_cos9 = k2\_partfun2\ k1\_numbers\ k1\_numbers\ (k2\_partfun1 \\ k1\_numbers\ k1\_numbers\ k30\_sin\_cos\ (k2\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1 \\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \end{aligned} \quad (7)$$

**Theorem 1**

$$\begin{aligned} k2\_funct\_1\ k2\_sin\_cos9 = k2\_partfun1\ k1\_numbers\ k1\_numbers\ k30\_sin\_cos \\ (k2\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos) \end{aligned}$$