

t6\_sin\_cos9 (TM-  
Morck1Fp9SrZGaoVvMTg41GuvPMDU5pTy)

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Let  $v1\_fcont\_1 : \iota \Rightarrow o$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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  $v1\_funct\_1 : \iota \Rightarrow o$  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  $r2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow ((r2\_fdiff\_1 X1 X0) \Rightarrow \\ & (v1\_fcont\_1 (k2\_partfun1 k1\_numbers k1\_numbers X1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$r2\_fdiff\_1 k30\_sin\_cos (k2\_rcomp\_1 k6\_numbers k32\_sin\_cos) \quad (2)$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 k30\_sin\_cos) \wedge (m1\_subset\_1 k30\_sin\_cos (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 k1\_numbers k1\_numbers))) \end{aligned} \quad (3)$$

**Theorem 1**

$$v1\_fcont\_1 (k2\_partfun1 k1\_numbers k1\_numbers k30\_sin\_cos (k2\_rcomp\_1 k6\_numbers k32\_sin\_cos))$$