

t4\_sin\_cos9  
(TMWiWd8Ji7pFamsVzKtC4qv2egM6Nq1iphu)

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Let  $r2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k5\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k16\_sin\_cos : \iota$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow ((X0 \in k2\_rcomp\_1 k6\_numbers \quad k32\_sin\_cos) \Rightarrow (k1\_fdiff\_1 k30\_sin\_cos X0 = k1\_real\_1 (k10\_real\_1 \quad np\_1 (k5\_square\_1 (k1\_seq\_1 k16\_sin\_cos X0)))))) \quad (1)$$

Assume the following.

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

**Theorem 1**

$$(r2\_fdiff\_1 k30\_sin\_cos (k2\_rcomp\_1 k6\_numbers k32\_sin\_cos)) \wedge (\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow ((X0 \in k2\_rcomp\_1 k6\_numbers \quad k32\_sin\_cos) \Rightarrow (k1\_fdiff\_1 k30\_sin\_cos X0 = k1\_real\_1 (k10\_real\_1 \quad np\_1 (k5\_square\_1 (k1\_seq\_1 k16\_sin\_cos X0))))))$$