

t3_sin_cos9

(TMHTEGe7xRqKLbe4Zg8dRPtLzH3DhRxUUfN)

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Let $r2_fdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k29_sin_cos : \iota$ be given. Let $k2_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k1_fdiff_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_square_1 : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_sin_cos : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow ((X0 \in k2_rcomp_1 (k1_real_1 \\ (k10_real_1 k32_sin_cos np_2)) (k10_real_1 k32_sin_cos np_2)) \Rightarrow \\ (k1_fdiff_1 k29_sin_cos X0 = k10_real_1 np_1 (k5_square_1 (k1_seq_1 \\ k19_sin_cos X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$r2_fdiff_1 k29_sin_cos (k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos \\ np_2)) (k10_real_1 k32_sin_cos np_2)) \tag{2}$$

Theorem 1

$$\begin{aligned} (r2_fdiff_1 k29_sin_cos (k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos \\ np_2)) (k10_real_1 k32_sin_cos np_2))) \wedge (\forall X0.(m1_subset_1 \\ X0 k1_numbers) \Rightarrow ((X0 \in k2_rcomp_1 (k1_real_1 (k10_real_1 k32_sin_cos \\ np_2)) (k10_real_1 k32_sin_cos np_2)) \Rightarrow (k1_fdiff_1 k29_sin_cos \\ X0 = k10_real_1 np_1 (k5_square_1 (k1_seq_1 k19_sin_cos X0)))))) \end{aligned}$$