

t62_sin_cos9

(TMM2LNJqWKwuPzgADzAQRgutkXipF9bRhBZ)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_sin_cos9 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_4 : \iota$ be given. Let $k2_sin_cos4 : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k30_sin_cos : \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (((r1_xreal_0 (k1_real_1 np_1) X0) \wedge (r1_xreal_0 X0 np_1)) \Rightarrow (k2_sin_cos4 (k6_sin_cos9 X0) = X0)) \quad (1)$$

Assume the following.

$$\begin{aligned} & (k1_seq_1 k30_sin_cos (k10_real_1 k32_sin_cos np_4) = np_1) \wedge \\ & ((k2_sin_cos4 (k10_real_1 k32_sin_cos np_4) = np_1) \wedge ((k1_seq_1 \\ & k30_sin_cos (k8_real_1 (k10_real_1 np_3 np_4) k32_sin_cos) = \\ & k1_real_1 np_1) \wedge (k2_sin_cos4 (k8_real_1 (k10_real_1 np_3 np_4) \\ & k32_sin_cos) = k1_real_1 np_1))) \quad (2) \end{aligned}$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (((r1_xreal_0 (k1_real_1 np_1) X0) \wedge ((r1_xreal_0 X0 np_1) \wedge (k6_sin_cos9 X0 = k10_real_1 k32_sin_cos np_4))) \Rightarrow (X0 = np_1))$$