

l104_sincos10 (TM-
UfA5RSK27w6eouUuy9H8HWnADHKVYe4XR)

October 27, 2020

Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k2_fdiff_9 : \iota$ be given. Let $k1_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np_2 : \iota$ 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 $v5_valued_0 : \iota \Rightarrow o$ be given. Let $v6_valued_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((v5_valued_0 (k2_partfun1 \\ & k1_numbers k1_numbers X1 X0)) \vee (v6_valued_0 (k2_partfun1 k1_numbers \\ & k1_numbers X1 X0))) \Rightarrow (v2_funct_1 (k2_partfun1 k1_numbers k1_numbers \\ & X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((r1_tarski \\ & X0 X1) \wedge (v6_valued_0 (k2_partfun1 k1_numbers k1_numbers X2 X1))) \Rightarrow \\ & (v6_valued_0 (k2_partfun1 k1_numbers k1_numbers X2 X0))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & v6_valued_0 (k2_partfun1 k1_numbers k1_numbers k2_fdiff_9 (k4_rcomp_1 \\ & k6_numbers (k10_real_1 k32_sin_cos np_2))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & r1_tarski (k1_rcomp_1 (k10_real_1 k32_sin_cos np_4) (k10_real_1 \\ & k32_sin_cos np_2)) (k4_rcomp_1 k6_numbers (k10_real_1 k32_sin_cos \\ & np_2)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 k2_fdiff_9) \wedge (m1_subset_1 k2_fdiff_9 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers))) \end{aligned} \tag{5}$$

Theorem 1

*v2_funct_1 (k2_partfun1 k1_numbers k1_numbers k2_diff_9 (k1_rcomp_1
(k10_real_1 k32_sin_cos np_4) (k10_real_1 k32_sin_cos np_2)))*