

t62_asympt_1

(TMJ6SRskT8JSif29wmeQ2ArWWJshwTXBfU7)

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Let $v1_asympt_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v4_asympt_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v1_asympt_0 X0) \wedge (m1_subset_1 X0 k1_numbers)) \Rightarrow (\\
 & \quad \forall X1.((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers k1_numbers) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k1_numbers)))))) \Rightarrow \\
 & \quad ((\forall X2.(m2_subset_1 X2 k1_numbers k5_numbers) \Rightarrow ((\neg r1_xxreal_0 \\
 & X2 k6_numbers) \Rightarrow (k1_seq_1 X1 X2 = k6_power X0 X2))) \Rightarrow ((r1_xxreal_0 \\
 & X0 np_1) \vee (v4_asympt_0 X1)))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((v1_asympt_0 X0) \wedge (m1_subset_1 X0 k1_numbers)) \Rightarrow (\\
 & \quad \forall X1.((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers k1_numbers) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k1_numbers)))))) \Rightarrow \\
 & \quad (((k1_seq_1 X1 k6_numbers = k6_numbers) \wedge (\forall X2.(m2_subset_1 \\
 & X2 k1_numbers k5_numbers) \Rightarrow ((\neg r1_xxreal_0 X2 k6_numbers) \Rightarrow (k1_seq_1 \\
 & X1 X2 = k6_power X0 X2)))) \Rightarrow ((r1_xxreal_0 X0 np_1) \vee (v4_asympt_0 \\
 & X1)))
 \end{aligned}$$