t6_asympt_1 (TMSi6x3MJf7NCY7FbNVNW4aKHWYo8SCL6hS)

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Let $k3\_asympt\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k7\_asympt\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_asympt\_1 : \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_asympt\_0 : \iota \Rightarrow \iota$ 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 $k1\_numbers : \iota$ be given. Let $v2\_asympt\_0 : \iota \Rightarrow o$ 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 $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_asympt\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v5\_asympt\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$(r1\_tarski\ (k6\_asympt\_0\ k2\_asympt\_1)\ (k6\_asympt\_0\ (k3\_asympt\_1\ (k10\_real\_1\ np\_\_1\ np\_\_2))))\wedge(k6\_asympt\_0\ k2\_asympt\_1 \neq k6\_asympt\_0\ (k3\_asympt\_1\ (k10\_real\_1\ np\_\_1\ np\_\_2))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge((v2\_asympt\_0\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k5\_numbers\ k1\_numbers)\wedge((v2\_asympt\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))))\Rightarrow((r1\_tarski\ (k6\_asympt\_0\ X0)\ (k6\_asympt\_0\ X1))\Rightarrow((k6\_asympt\_0\ X0 = k6\_asympt\_0\ X1)\vee((X0 \in k6\_asympt\_0\ X1)\wedge(\neg X0 \in k7\_asympt\_0\ X1))))\wedge((X0 \in k6\_asympt\_0\ X1)\Rightarrow((X0 \in k7\_asympt\_0\ X1)\vee((r1\_tarski\ (k6\_asympt\_0\ X0)\ (k6\_asympt\_0\ X1))\wedge(k6\_asympt\_0\ X0 \neq k6\_asympt\_0\ X1)))))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge((v2\_asympt\_0\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k5\_numbers\ k1\_numbers)\wedge((v2\_asympt\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))))\Rightarrow((X0 \in k7\_asympt\_0\ X1)\Leftrightarrow(X1 \in k6\_asympt\_0\ X0))) \tag{3}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2)\wedge(m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_2\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{4}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1)\wedge(m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow((v1\_funct\_1\ (k3\_asympt\_1\ X0))\wedge((v1\_funct\_2\ (k3\_asympt\_1\ X0)\ k5\_numbers\ k1\_numbers)\wedge(v4\_asympt\_0\ (k3\_asympt\_1\ X0)))) \tag{6}$$

Assume the following.

$$(v1\_funct\_1\ k2\_asympt\_1)\wedge((v1\_funct\_2\ k2\_asympt\_1\ k5\_numbers\ k1\_numbers)\wedge(v4\_asympt\_0\ k2\_asympt\_1)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow((v1\_funct\_1\ (k3\_asympt\_1\ X0))\wedge((v1\_funct\_2\ (k3\_asympt\_1\ X0)\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ (k3\_asympt\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))) \tag{8}$$

Assume the following.

$$(v1\_funct\_1\ k2\_asympt\_1)\wedge((v1\_funct\_2\ k2\_asympt\_1\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ k2\_asympt\_1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(v1\_xreal\_0\ X1))\Rightarrow(m1\_subset\_1\ (k10\_real\_1\ X0\ X1)\ k1\_numbers) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))\Rightarrow(((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge(v4\_asympt\_0\ X0)))\Rightarrow((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge((v2\_asympt\_0\ X0)\wedge(v5\_asympt\_0\ X0)))))) \tag{11}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{12}$$

Theorem 1

$$(k3\_asympt\_1\ (k10\_real\_1\ np\_\_1\ np\_\_2)\in k7\_asympt\_0\ k2\_asympt\_1)\wedge(\neg k2\_asympt\_1\in k7\_asympt\_0\ (k3\_asympt\_1\ (k10\_real\_1\ np\_\_1\ np\_\_2)))$$