

# l69\_asympt\_1

(TMP2jHVLD9p6puA5wesw4ZEVmZLTbdRBE8)

October 27, 2020

Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k6\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k1\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k5\_numbers) \Rightarrow \\ (((r1\_xxreal\_0 k6\_numbers X0) \wedge (r1\_xxreal\_0 np\_1 X1)) \Rightarrow (k3\_power \\ X0 (k10\_real\_1 np\_1 X1) = k1\_power X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow ((r1\_xxreal\_0 k6\_numbers X0) \Rightarrow (k2\_prepower \\ np\_2 X0 = k6\_square\_1 X0)) \tag{2}$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$r1\_xxreal\_0 np\_1 np\_2 \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((( \\ (r1\_xxreal\_0\ k6\_numbers\ X1) \wedge (r1\_xxreal\_0\ np\_1\ X0)) \Rightarrow (k1\_power \\ X0\ X1 = k2\_prepower\ X0\ X1)) \wedge (\neg(\neg r1\_xxreal\_0\ k6\_numbers\ X1) \wedge (\neg \\ v1\_abian\ X0) \wedge (k1\_power\ X0\ X1 \neq k4\_xcmplx\_0\ (k2\_prepower\ X0\ (k4\_xcmplx\_0 \\ X1)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \quad (8)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((r1\_xxreal\_0\ k6\_numbers\ X0) \Rightarrow (k6\_square\_1 \\ X0 = k3\_power\ X0\ (k10\_real\_1\ np\_1\ np\_2))) \end{aligned}$$