

## t14\_taylor\_1

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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  $k25\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k5\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_power : \iota$  be given. Let  $k9\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k26\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_power : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow & ((k9\_prepower (k26\_sin\_cos np\_1) \\ X0 = k25\_sin\_cos X0) \wedge & ((k3\_power (k26\_sin\_cos np\_1) X0 = k25\_sin\_cos \\ X0) \wedge & ((k3\_power k8\_power X0 = k25\_sin\_cos X0) \wedge (k9\_prepower k8\_power \\ X0 = k25\_sin\_cos X0)))) & \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg r1\_xxreal\_0 (k25\_sin\_cos X0) k6\_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k3\_power X0 np\_1 = X0) \quad (3)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_1) \wedge & (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_1 & k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) & \end{aligned} \quad (4)$$

Assume the following.

$$r1\_xxreal\_0 np\_1 np\_1 \quad (5)$$

Assume the following.

$$k8\_power = k7\_power \quad (6)$$

Assume the following.

$$\neg r1\_xxreal\_0 k8\_power np\_1 \quad (7)$$

Assume the following.

$$v1\_xreal\_0 \ k7\_power \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 \ X0)\wedge(v1\_xreal\_0 \ X1))\Rightarrow(v1\_xreal\_0 \ (k5\_power \ X0 \ X1)) \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 \ X0)\Rightarrow(\forall X1.(v1\_xreal\_0 \ X1)\Rightarrow(\neg(\neg \\ r1\_xxreal\_0 \ X0 \ k6\_numbers)\wedge((X0\neq np\_1)\wedge(\neg r1\_xxreal\_0 \ X1 \ k6\_numbers)\wedge \\ (\neg\forall X2.(v1\_xreal\_0 \ X2)\Rightarrow((X2 = k5\_power \ X0 \ X1)\Leftrightarrow(k3\_power \\ X0 \ X2 = X1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers)\Rightarrow(v1\_xreal\_0 \ X0) \quad (11)$$

**Theorem 1**

$$\forall X0.(v1\_xreal\_0 \ X0)\Rightarrow((\neg r1\_xxreal\_0 \ X0 \ k6\_numbers)\Rightarrow(k25\_sin\_cos \ (k5\_power \ k8\_power \ X0) = X0))$$