

## t10\_taylor\_1

(TMWnzA7rFybNNeths1aAHavGY3FhB4gwHG8)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k9\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k24\_sin\_cos : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_power : \iota$  be given. Let  $k26\_sin\_cos : \iota \Rightarrow \iota$  be given. Let  $k25\_sin\_cos : \iota \Rightarrow \iota$  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. 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.

$$\begin{aligned} ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 & k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 & np\_1 k1\_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (k26\_sin\_cos X0 = k25\_sin\_cos X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k25\_sin\_cos X0 = k1\_seq\_1 k24\_sin\_cos X0) \quad (4)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (5)$$

### Theorem 1

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow & ((k9\_prepower (k1\_seq\_1 k24\_sin\_cos \\ np\_1) X0 = k1\_seq\_1 k24\_sin\_cos X0) \wedge & ((k3\_power (k1\_seq\_1 k24\_sin\_cos \\ np\_1) X0 = k1\_seq\_1 k24\_sin\_cos X0) \wedge & ((k3\_power k8\_power X0 = k1\_seq\_1 \\ k24\_sin\_cos X0) \wedge (k9\_prepower k8\_power & X0 = k1\_seq\_1 k24\_sin\_cos \\ X0)))) & \end{aligned}$$