

t101\_sincos10

(TMWYN1MijgYEn8DL6YXC5EvMbzyY6qYas2y)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k7\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k9\_sincos10 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k32\_sin\_cos : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_fdiff\_9 : \iota$  be given. Let  $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & (((r1\_xxreal\_0 np\_1 \\ X0) \wedge (r1\_xxreal\_0 X0 (k7\_square\_1 np\_2))) \Rightarrow & (k1\_seq\_1 k1\_fdiff\_9 \\ (k9\_sincos10 X0) = X0)) & \quad (1) \end{aligned}$$

Assume the following.

$$\begin{aligned} (k1\_seq\_1 k1\_fdiff\_9 k6\_numbers = np\_1) \wedge & ((k1\_seq\_1 k1\_fdiff\_9 \\ (k10\_real\_1 k32\_sin\_cos np\_4) = k7\_square\_1 np\_2) \wedge & ((k1\_seq\_1 \\ k1\_fdiff\_9 (k8\_real\_1 (k10\_real\_1 np\_3 np\_4) k32\_sin\_cos) = & \quad (2) \\ k1\_real\_1 (k7\_square\_1 np\_2)) \wedge (k1\_seq\_1 k1\_fdiff\_9 k32\_sin\_cos = & \\ k1\_real\_1 np\_1))) & \end{aligned}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & (((((r1\_xxreal\_0 np\_1 \\ X0) \wedge ((r1\_xxreal\_0 X0 (k7\_square\_1 np\_2)) \wedge (k9\_sincos10 X0 = k6\_numbers))) \Rightarrow & \\ (X0 = np\_1)) \wedge (((r1\_xxreal\_0 np\_1 X0) \wedge ((r1\_xxreal\_0 X0 (k7\_square\_1 & \\ np\_2)) \wedge (k9\_sincos10 X0 = k10\_real\_1 k32\_sin\_cos np\_4))) \Rightarrow (X0 = & \\ k7\_square\_1 np\_2))) & \end{aligned}$$