

# t102\_sincos10 (TMXHkZAmTRmfs- VAddf5jze186KYGjRPnLFc)

October 27, 2020

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

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & (((r1\_xxreal\_0 (k1\_real\_1 \\ (k7\_square\_1 np\_2)) X0) \wedge (r1\_xxreal\_0 X0 (k1\_real\_1 np\_1))) \Rightarrow & (1) \\ (k1\_seq\_1 k1\_fdiff\_9 (k10\_sincos10 X0) = X0)) \end{aligned}$$

Assume the following.

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

## Theorem 1

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & (((r1\_xxreal\_0 (k1\_real\_1 \\ (k7\_square\_1 np\_2)) X0) \wedge (r1\_xxreal\_0 X0 (k1\_real\_1 np\_1)) \wedge \\ (k10\_sincos10 X0 = k8\_real\_1 (k10\_real\_1 np\_3 np\_4) k32\_sin\_cos)) \Rightarrow & \\ (X0 = k1\_real\_1 (k7\_square\_1 np\_2)) \wedge & ((r1\_xxreal\_0 (k1\_real\_1 \\ (k7\_square\_1 np\_2)) X0) \wedge (r1\_xxreal\_0 X0 (k1\_real\_1 np\_1)) \wedge \\ (k10\_sincos10 X0 = k32\_sin\_cos)) \Rightarrow & (X0 = k1\_real\_1 np\_1))) \end{aligned}$$