

# l24\_wsierp\_1 (TM- RZfg9fNk6XtmDS5DEfBgmuZ6GaDXqhyxT)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (r1\_xreal\_0 k6\_numbers X0) \quad (1)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow (((r1\_xreal\_0 k6\_numbers X0) \wedge (\neg r1\_xreal\_0 \\ & X1 X2)) \vee ((\neg r1\_xreal\_0 X0 k6\_numbers) \wedge (r1\_xreal\_0 X2 X1)))) \Rightarrow \\ & ((\neg r1\_xreal\_0 (k2\_xcmplx\_0 X0 X1) X2) \wedge (\neg r1\_xreal\_0 X1 (k6\_xcmplx\_0 \\ & X2 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow ((r1\_xreal\_0 (k2\_xcmplx\_0 X0 X1) X2) \Rightarrow (r1\_xreal\_0 \\ & X0 (k6\_xcmplx\_0 X2 X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota.v1\_xboole\_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_xreal\_0 X0) \quad (6)$$

## Theorem 1

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v7\_ordinal1 X2) \Rightarrow ((r1\_xreal\_0 (k2\_xcmplx\_0 X0 X1) X2) \Rightarrow ((r1\_xreal\_0 \\ & X0 X2) \wedge (r1\_xreal\_0 X1 X2)))))) \end{aligned}$$