

## t6\_wsierp\_1

(TMaDWo22P7gia3egsdBbhUcEJ8gDEpXyMNh)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k3\_int\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_int\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_int\_1 X2) \Rightarrow (((r1\_int\_2 X0 X1) \wedge (r1\_int\_2 X2 X1)) \Rightarrow (r1\_int\_2 \\ & (k3\_xcmplx\_0 X0 X2) X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1 X0) \wedge (v1\_int\_1 X1)) \Rightarrow (v1\_int\_1 (k3\_xcmplx\_0 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow ((r1\_int\_2 X0 X1) \Leftrightarrow (k3\_int\_2 X0 X1 = np\_1))) \quad (3)$$

### Theorem 1

$$\begin{aligned} & \forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_int\_1 X2) \Rightarrow (((k3\_int\_2 X0 X1 = np\_1) \wedge (k3\_int\_2 X2 X1 = np\_1)) \Rightarrow \\ & (k3\_int\_2 (k3\_xcmplx\_0 X0 X2) X1 = np\_1)))) \end{aligned}$$