

## t27\_waybel21

(TMMHEXhohpM9bht1LuvD6bVk7zC6f9pmgrr)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_struct\_0 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2\_struct\_0 X1) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow (r1\_waybel\_0 X0 X1 (k2\_relset\_1 \\ & (u1\_struct\_0 X0) (u1\_waybel\_0 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_struct\_0 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2\_struct\_0 X1) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow (\forall X2. \forall X3. \\ & (r1\_tarski X2 X3) \Rightarrow (((r1\_waybel\_0 X0 X1 X2) \Rightarrow (r1\_waybel\_0 X0 X1 X3)) \wedge \\ & ((r2\_waybel\_0 X0 X1 X2) \Rightarrow (r2\_waybel\_0 X0 X1 X3)))) \end{aligned} \tag{2}$$

### Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_struct\_0 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2\_struct\_0 X1) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow (\forall X2. (r1\_tarski \\ & (k2\_relset\_1 (u1\_struct\_0 X0) (u1\_waybel\_0 X0 X1)) X2) \Rightarrow (r1\_waybel\_0 \\ & X0 X1 X2))) \end{aligned}$$