

## t63\_xxreal\_3

(TMawun3Qvba3yAVwiLXP3J9LudmXgRrGdMf)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xxreal\_0 X2) \Rightarrow ((X0 \in k1\_numbers) \Rightarrow ((r1\_xxreal\_0 X2 X1) \vee ((\neg \\ & r1\_xxreal\_0 (k1\_xxreal\_3 X2 X0) (k1\_xxreal\_3 X1 X0)) \wedge (\neg r1\_xxreal\_0 \\ & (k3\_xxreal\_3 X2 X0) (k3\_xxreal\_3 X1 X0))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\neg(\neg X0 \in k1\_numbers) \wedge ((X0 \neq k1\_xxreal\_0) \wedge (X0 \neq k2\_xxreal\_0))) \tag{2}$$

### Theorem 1

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xxreal\_0 X2) \Rightarrow (\neg(X2 \neq k2\_xxreal\_0) \wedge ((X2 \neq k1\_xxreal\_0) \wedge ((\neg \\ & r1\_xxreal\_0 X1 X0) \wedge (r1\_xxreal\_0 (k3\_xxreal\_3 X1 X2) (k3\_xxreal\_3 \\ & X0 X2))))))) \end{aligned}$$