

t15\_absvalue  
(TMJZC41on4sokyZnEEfT6mBWYxjUSLL1Gjz)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_absvalue : \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (r1\_xxreal\_0 k6\_numbers X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (4)$$

Assume the following.

$$\neg r1\_xxreal\_0 np\_0 (k4\_xcmplx\_0 np\_1) \quad (5)$$

Assume the following.

$$r1\_xxreal\_0 np\_0 np\_1 \quad (6)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (k1\_real\_1 X0 = k4\_xcmplx\_0 X0) \quad (8)$$

Assume the following.

$$v1\_xboole\_0 \ k1\_xboole\_0 \tag{9}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 \ X0) \Rightarrow & (((\neg r1\_xxreal\_0 \ X0 \ k6\_numbers) \Rightarrow ( \\ k1\_absvalue \ X0 = np\_1)) \wedge & (((\neg r1\_xxreal\_0 \ k6\_numbers \ X0) \Rightarrow (k1\_absvalue \\ X0 = k1\_real\_1 \ np\_1)) \wedge & (((r1\_xxreal\_0 \ X0 \ k6\_numbers) \wedge (r1\_xxreal\_0 \\ k6\_numbers \ X0)) \Rightarrow & (k1\_absvalue \ X0 = k6\_numbers)))) \end{aligned} \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (v7\_ordinal1 \ X0) \tag{11}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(v1\_xreal\_0 \ X0) \Rightarrow & (\neg(k1\_absvalue \ X0 = k1\_real\_1 \ np\_1) \wedge \\ & (r1\_xxreal\_0 \ k6\_numbers \ X0)) \end{aligned}$$