

t28_absvalue

(TMR3ZnzTMCHe6wTXmeD5ASdxWRrDCf46AZo)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k18_complex1 : \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((k18_complex1 X0 = X0) \vee (k18_complex1 X0 = k4_xcmplx_0 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k4_xcmplx_0 (k4_xcmplx_0 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (3)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(k18_complex1 X0 = k18_complex1 X1) \wedge ((X0 \neq X1) \wedge (X0 \neq k4_xcmplx_0 X1))))$$