

t12_euler_1

(TMYX61ZuGou5enpRWTLF51DssEQYhiW3r8X)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k22_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (((X0 \neq k6_numbers) \Rightarrow (k5_int_1 (k2_xcmplx_0 X1 (\\ & k3_xcmplx_0 X0 X2)) X0 = k2_xcmplx_0 (k5_int_1 X1 X0) X2)) \wedge (k6_int_1 \\ & (k2_xcmplx_0 X1 (k3_xcmplx_0 X0 X2)) X0 = k6_int_1 X1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (k22_binop_2 X0 X1 = k3_xcmplx_0 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (k22_binop_2 X0 X1 = k22_binop_2 X1 X0) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (k6_int_1 (k2_xcmplx_0 X0 (k3_xcmplx_0 X1 X2)) X2 = \\ & k6_int_1 X0 X2))) \end{aligned}$$