

t25_euclid_7

(TMcmkS1FX4BcJfjeVFSgFaFcqpszg8dvsuFW)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k6_euclid_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_matrixr2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow (((r1_xreal_0 np_1 X0) \wedge (r1_xreal_0 X0 X1)) \Rightarrow \\ & ((X2 = X0) \vee (k1_funct_1 (k6_matrixr2 X1 X2) X0 = k6_numbers)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\\ & (r1_xreal_0 np_1 X0) \wedge (r1_xreal_0 X0 X1)) \Rightarrow (k1_funct_1 (k6_matrixr2 \\ & X1 X0) X0 = np_1))) \end{aligned} \quad (2)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (\\ & k6_euclid_7 X0 X1 = k6_matrixr2 X0 X1) \end{aligned} \quad (5)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow (((r1_xreal_0 np_1 X1) \wedge ((r1_xreal_0 X1 X0) \wedge \\ & (k6_euclid_7 X0 X1 = k6_euclid_7 X0 X2)))) \Rightarrow (X1 = X2)))) \end{aligned}$$