t11_rat_1 (TMNJVdC-SAAUd5erUGisWuzv7G5AdpLi6KtA)

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Let $v1\_rat\_1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_rat\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k6\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{1}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow ((\neg r1\_xxreal\_0\ np\_\_1\ X0) \Rightarrow (X0 = k6\_numbers)) \tag{3}$$

Assume the following.

$$m2\_subset\_1\ k6\_numbers\ k1\_numbers\ k5\_numbers \tag{4}$$

Assume the following.

$$\forall X0.(v1\_rat\_1\ X0) \Rightarrow (m2\_subset\_1\ (k1\_rat\_1\ X0)\ k1\_numbers\ k5\_numbers) \tag{5}$$

Assume the following.

$$\begin{aligned}&\forall X0.(v1\_rat\_1\ X0) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow ((X1 = k1\_rat\_1\ X0) \Leftrightarrow ((X1 \neq k6\_numbers) \wedge ((\exists X2.\\ &(v1\_int\_1\ X2) \wedge (X0 = k6\_real\_1\ X2\ X1)) \wedge (\forall X2.(v1\_int\_1\ X2) \Rightarrow\\ &(\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers) \Rightarrow ((X0 = k6\_real\_1\ X2\ X3) \Rightarrow ((X3 = k6\_numbers) \vee (r1\_xxreal\_0\ X1\ X3)))))))))\end{aligned} \tag{6}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{7}$$

Theorem 1 $\forall X0.(v1\_rat\_1\ X0) \Rightarrow (r1\_xxreal\_0\ np\_\_1\ (k1\_rat\_1\ X0))$.