

t2\_rat\_1 (TM-  
FXcv4VnaNV3pivT3MVKoGzUJSdogrLVpt)

October 27, 2020

Let  $v1\_rat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \neg(X0 \in k3\_numbers) \wedge (\forall X1. (v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_int\_1 X2) \Rightarrow (\neg(X2 \neq k6\_numbers) \wedge (X0 = k7\_xcmplx\_0 X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (v1\_rat\_1 X0) \Leftrightarrow (X0 \in k3\_numbers) \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \neg(v1\_rat\_1 X0) \wedge (\forall X1. (v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_int\_1 X2) \Rightarrow (\neg(X2 \neq k6\_numbers) \wedge (X0 = k7\_xcmplx\_0 X1 X2)))) \end{aligned}$$