Fi tack EgeR taked
$$x^2 = y^2 - 1$$
 viva

 $y^3 = x^2 + 1$ $y = 1\sqrt{x^2 + 1}$ ox

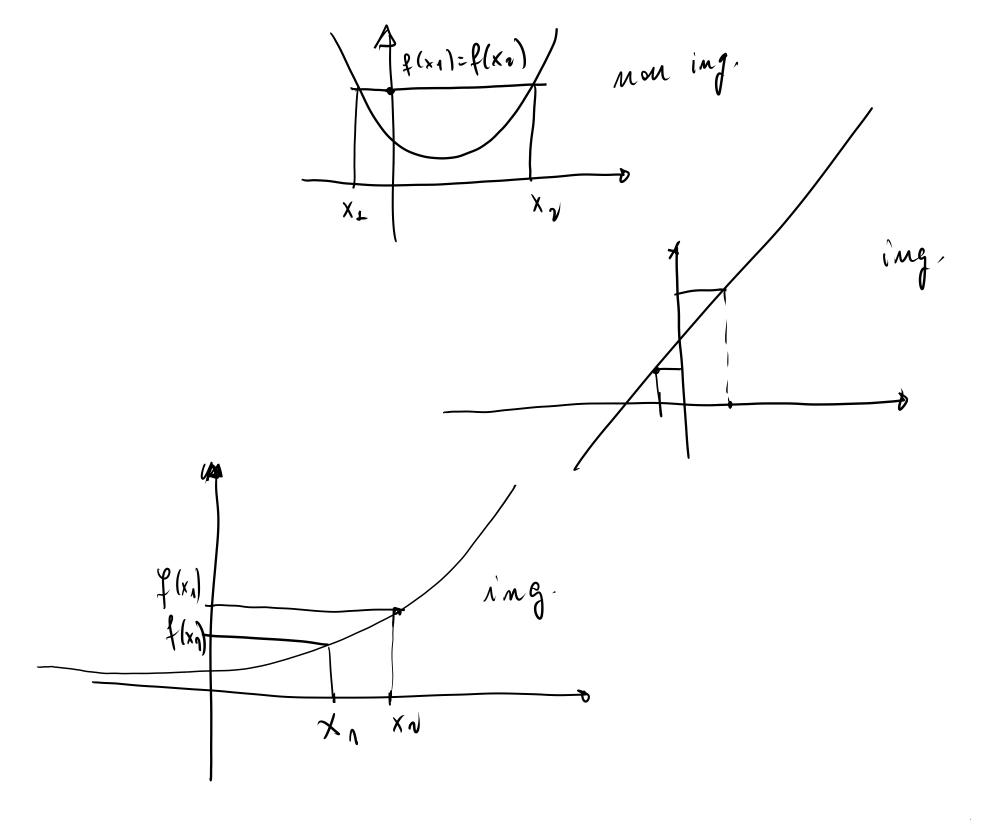
 $x^2 + 1 \neq 0$

Fi ExeR belief by $e R$ $x^2 = y^2 - 1$ falso

 $y = d$ $y_2 = d$

So visite un take $x = d - 1$ $x = 16 - 1$ contradiction

(FixeR) (Fi



 $A \qquad \mathcal{P}(A)$

TTC P(A)

 $T = \{A_i : i \in I\}$

 $X_{1} \cup X_{2} = \{x \in A : x \in X_{1} \cup x \in X_{2}\}$ X,X 29x EA; Fiz1,2 tolede x eXis XIUXIUX3 = 1×EA: XEXIVXEXI V XEX3) XIXZIXZ = $\{x \in A : \exists i = 1, 2, 3 \text{ tolich } x \in X_i \}$ XIUXIU--UXn={xeA; xeX, V V x EXn} $X_{L'} \times_{i_1-i_1} X_n$ = 1x EA: Fi=1,-, n tole de xexi} LieIXi={XEA: fieI tale dexeXi}. X_i , $i \in I$: 3 heth tele che a=5hbg R={(a,b) & Q* x Q* acQ* 3h=0e72 toleche a=5°·a=> A i riflessive (a.a) $\in \mathbb{R}$. $a,b\in \mathbb{Q}^*$ tehi ch (a,b) $\in \mathbb{R}$ Pe simulaice a = 5 h b e quivoli allone 3 h & 72 tale de $Q^* = Q - \{0\}$ Q = insterne du numeri revisuali

 $5^{-h}a = 5^{-h} \cdot 5^{h}b = 7 \quad b = 5^{-h} \cdot a$ quindi vista - h $\in \mathbb{Z}$ tale de $b = 5^{-h}a$ (b,a) $\in \mathbb{Q}$.

Referentive sions $q,b,c \in \mathbb{Q}^*$ toliche $(a,b)\in\mathbb{R}$ 1 $(b,c)\in\mathbb{R}$. Allows $(\exists h\in\mathbb{Z} \text{ tole } che \ a=5^hb)$, $(\exists k\in\mathbb{Z} \text{ tole } de \ b=5^kc)$ $a=5^h\cdot b=5^h(5^kc)=(5^h\cdot 5^k)\cdot c=5^h+kc$ quindi $\exists t=h+k\in\mathbb{Z} \text{ tole } de \ ov=5^tc \in quindi$ $(q,c)\in\mathbb{R}$.