

CURVE DI LIVELLO

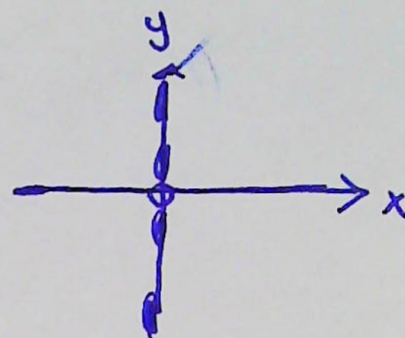
$$z = \frac{x^2 + y^2}{8x}$$

$$\begin{cases} z = \frac{x^2 + y^2}{8x} \\ z = k \end{cases}$$

$$\Rightarrow \text{EQ. CURVE DI LIVELLO}$$

$$\frac{x^2 + y^2}{8x} = k$$

DOMINIO di z : $\mathbb{R}^2 - \{\text{asse } y\}$ $x \neq 0$



RAPPRESENTIAMO LE CURVE DI LIVELLO:

$x^2 + y^2 - 8kx = 0$ sono circonferenze di centro

$$C(4k, 0) \quad r = |4k|$$

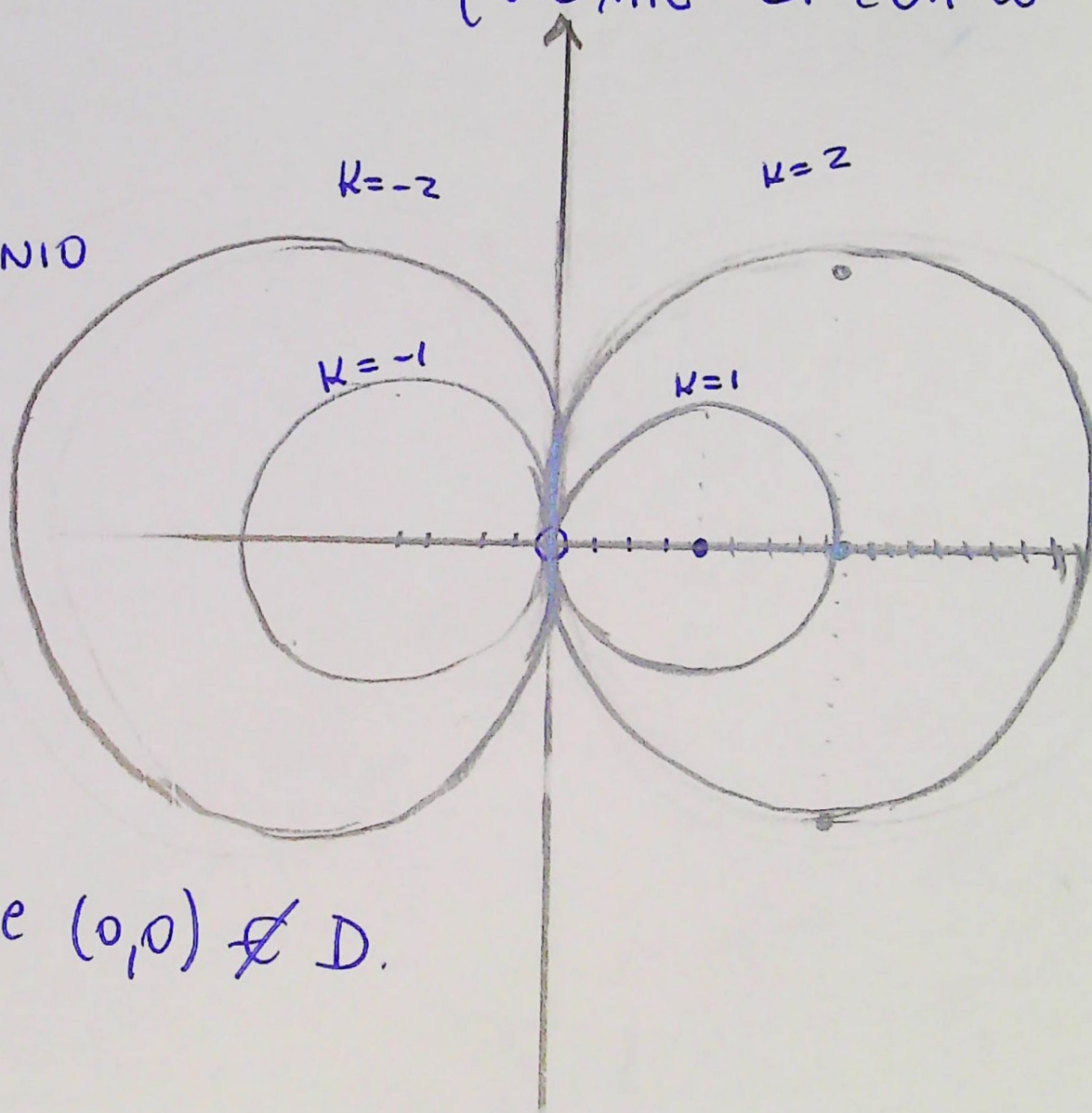
$$k=0 \rightarrow (0,0) \notin \text{DOMINIO}$$

$$k=1 \quad C(4,0) \quad r=4$$

$$k=-1 \quad C(-4,0) \quad r=4$$

$$k=2 \quad C(8,0) \quad r=8$$

$$k=-2 \quad C(-8,0) \quad r=8$$



N.B. escluso l'origine $(0,0) \notin D$.