

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \rightarrow \begin{cases} r(t) = (a \cos t, b \sin t) \\ 0 \leq t \leq 2\pi \\ \text{sentido} + \end{cases}$$

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \rightarrow \begin{cases} r(t) = (a \cos t, -b \sin t) \\ 0 \leq t \leq 2\pi \\ \text{sentido} - \end{cases}$$

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \rightarrow \begin{cases} r_1(t) = \left(x, \sqrt{b^2 - b^2 \frac{x^2}{a^2}} \right) \\ r_2(t) = \left(x, -\sqrt{b^2 - b^2 \frac{x^2}{a^2}} \right) \\ -a \leq t \leq a \\ \text{curva no simple} \end{cases}$$