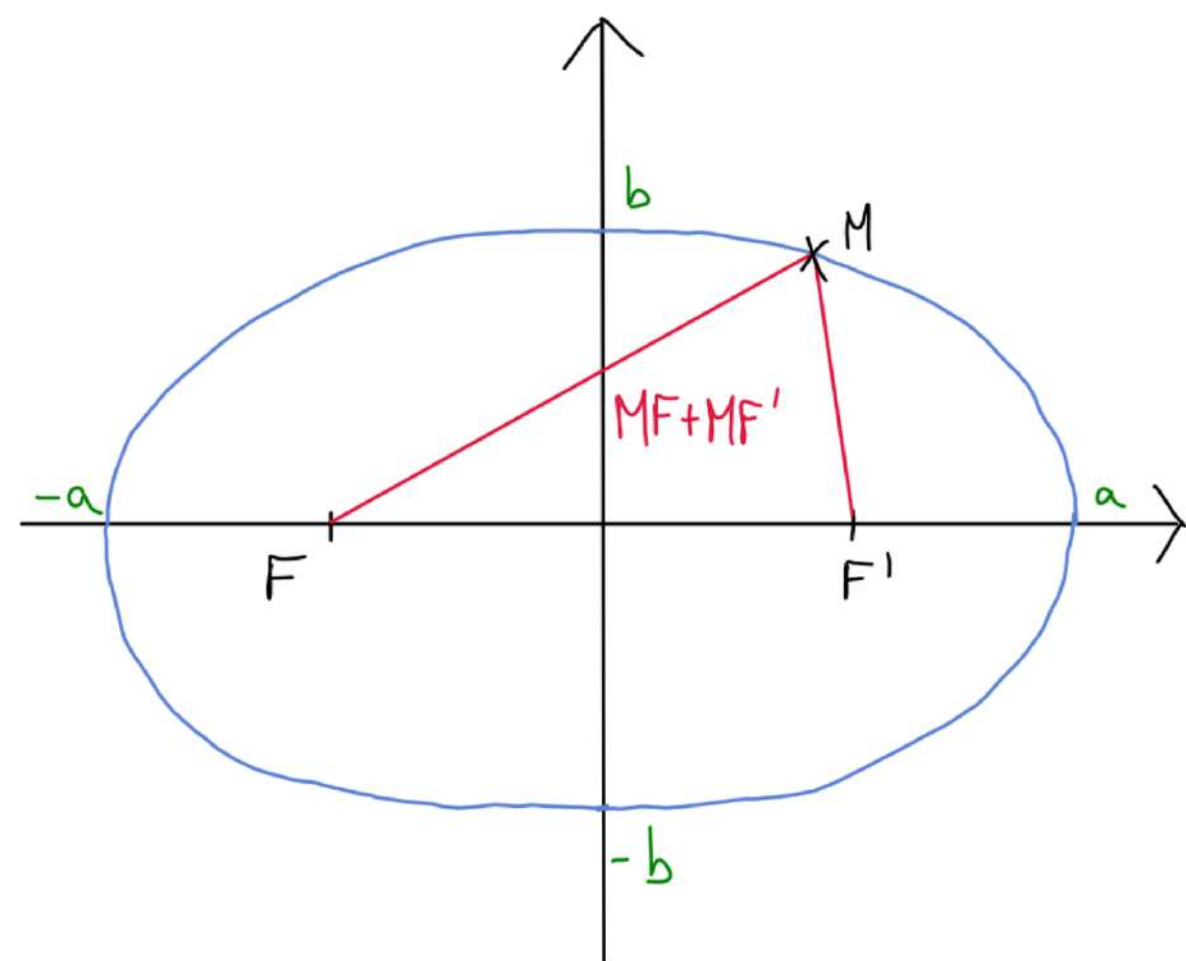
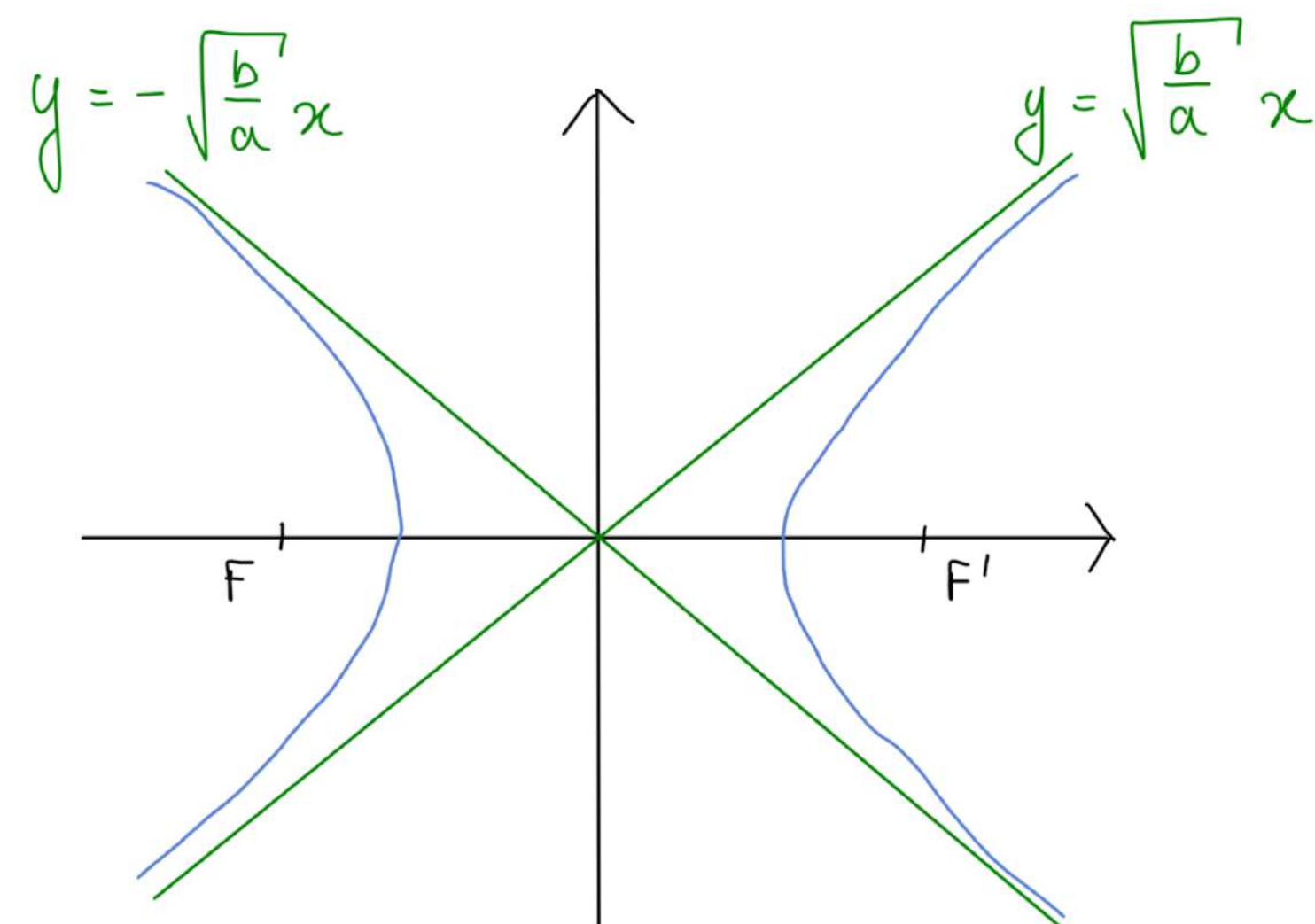


FIGURE 1 : Les différentes coniques

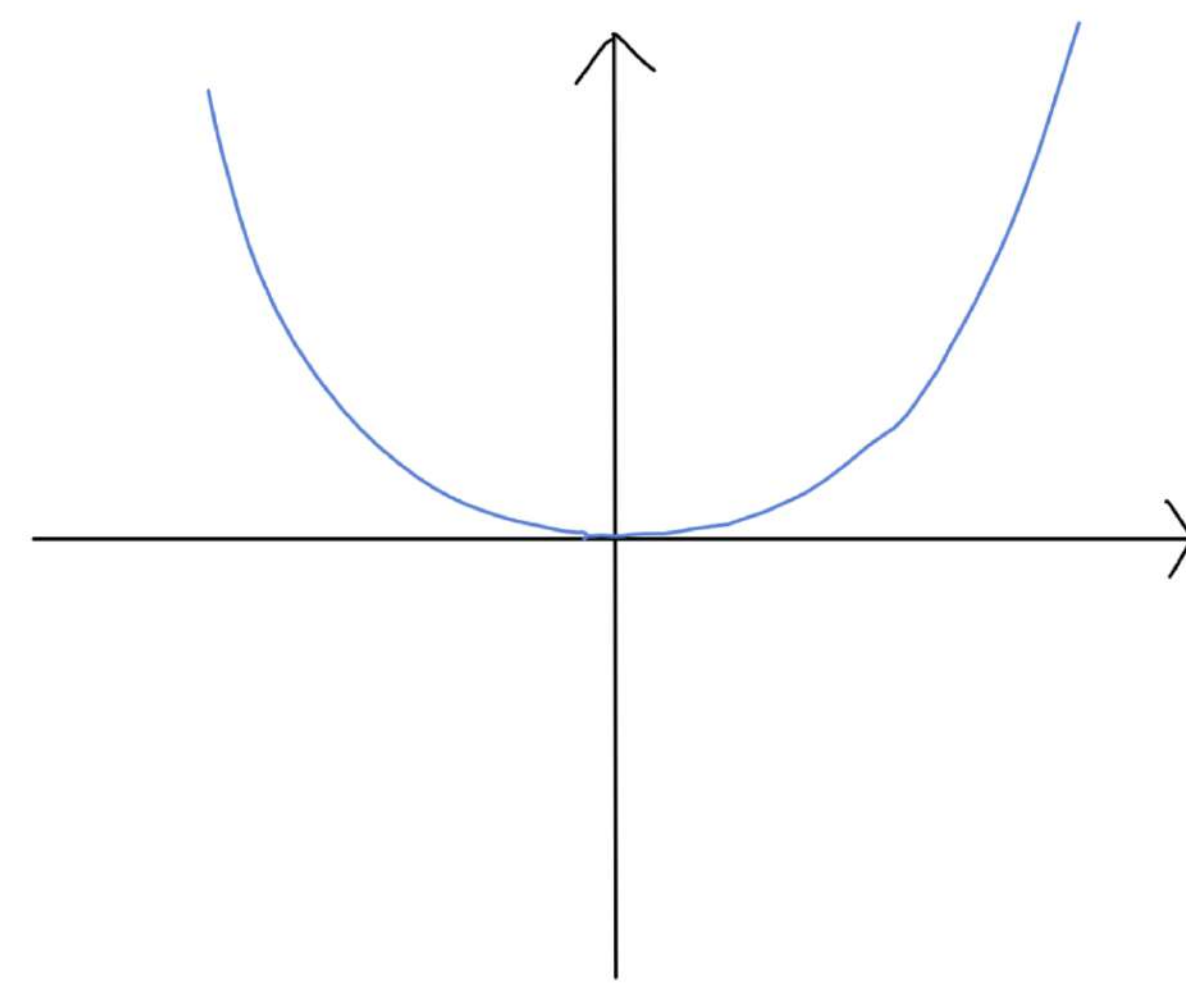


$$\mathcal{E} = \left\{ (x, y) \in \mathcal{P} \mid \left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 = 1 \right\}$$

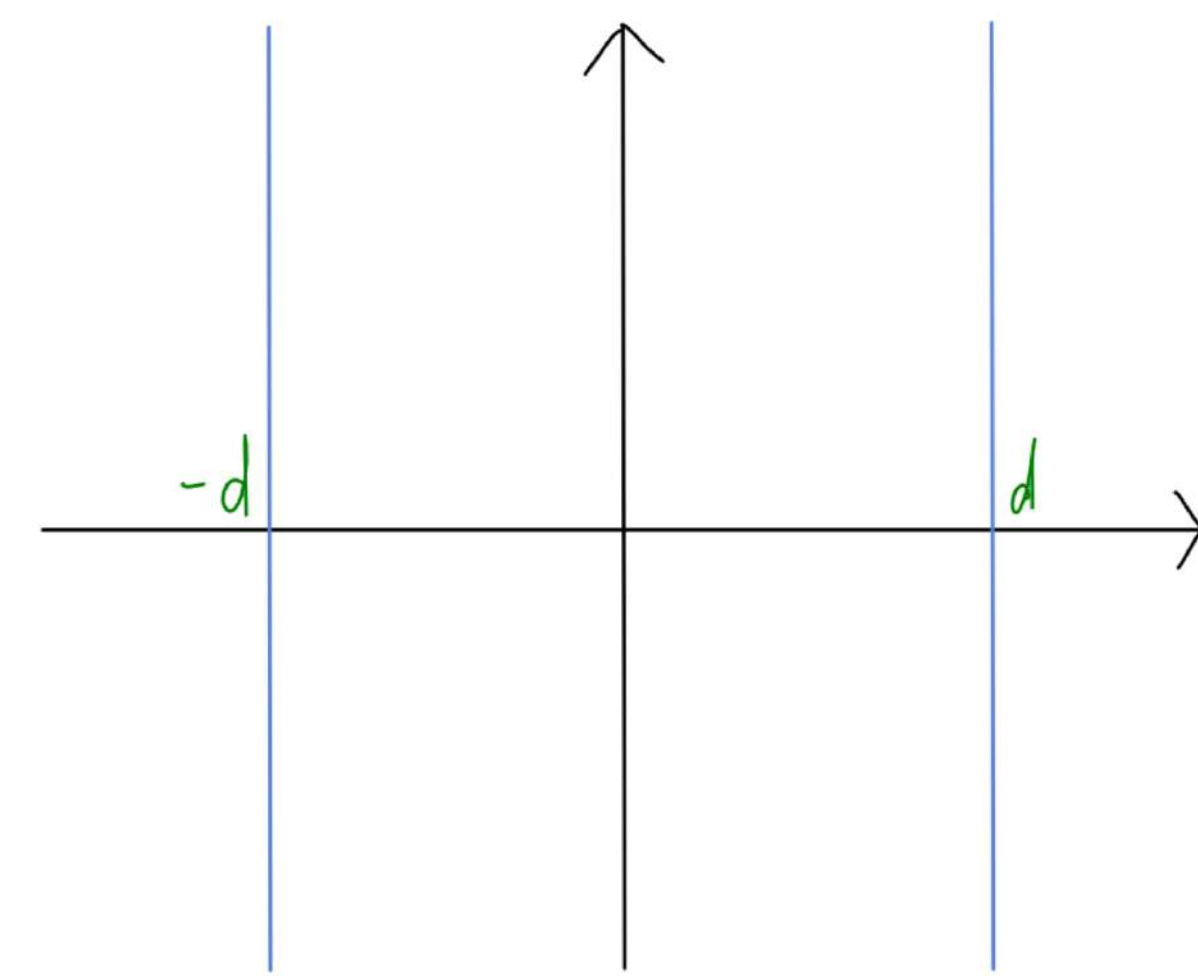


$$\mathcal{H} = \left\{ (x, y) \in \mathcal{P} \mid \left(\frac{x}{a}\right)^2 - \left(\frac{y}{b}\right)^2 = 1 \right\}$$

$$\mathcal{DS} = \left\{ (x, y) \in \mathcal{P} \mid y^2 = \frac{b}{a}x \right\}$$



$$\mathcal{B} = \left\{ (x, y) \in \mathcal{P} \mid y = 2px^2 \right\}$$



$$\mathcal{DP} = \left\{ (x, y) \in \mathcal{P} \mid x^2 = d \right\}$$

FIGURE 2 : Sections du cône

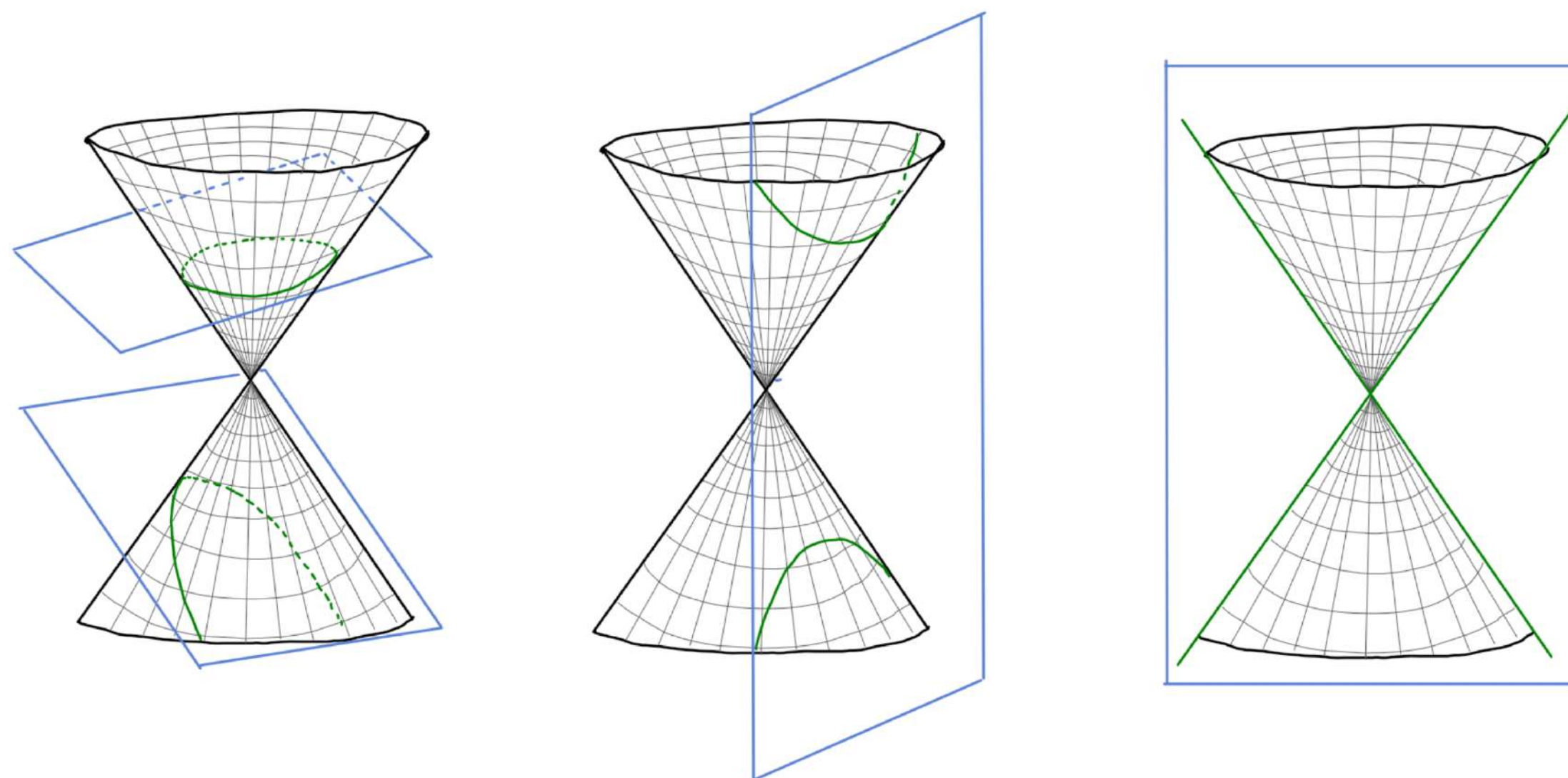
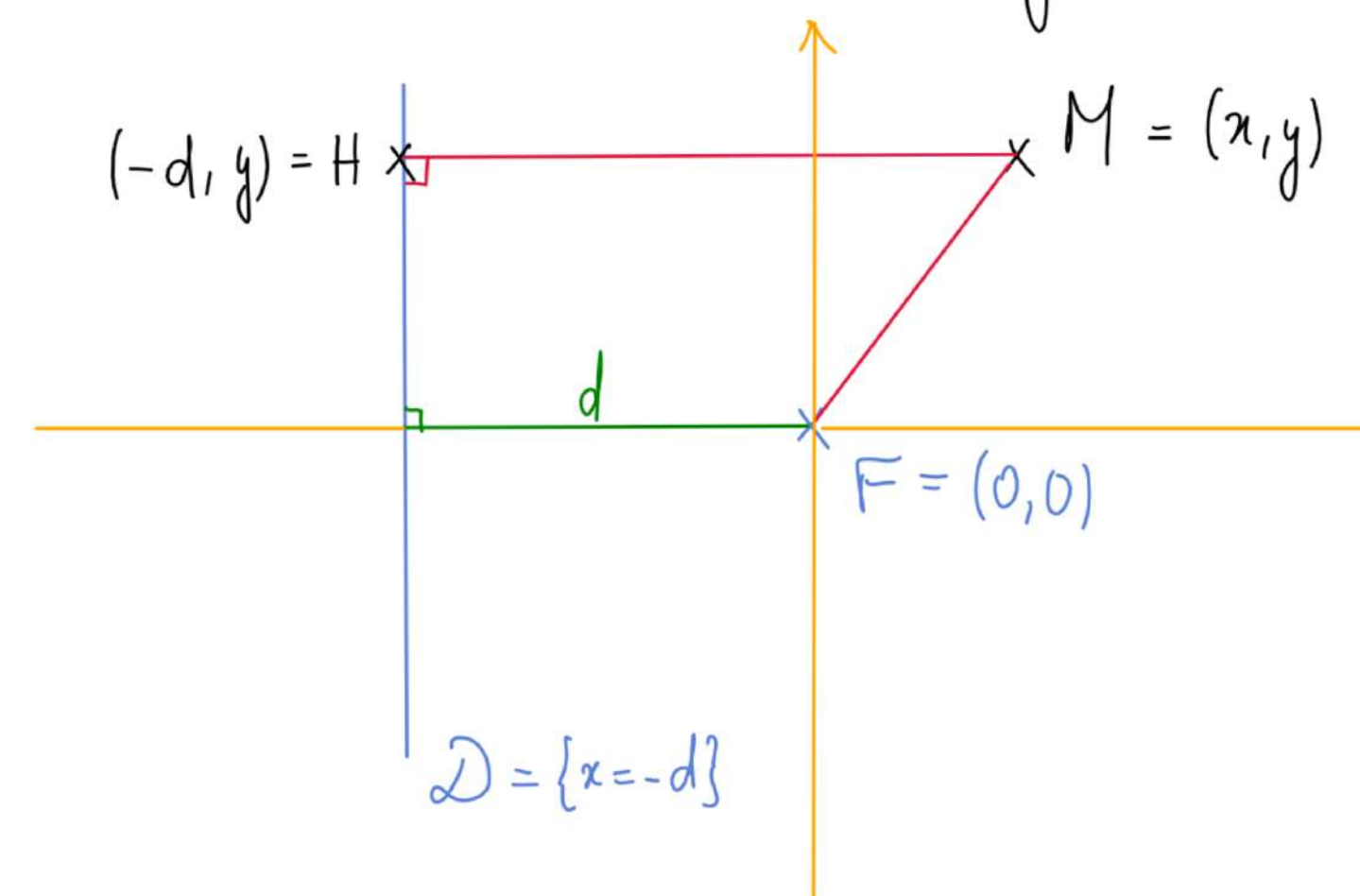


FIGURE 3 : Foyer - directrice



$$\begin{aligned} M \in \mathcal{C} &\Leftrightarrow MF = e MH \Leftrightarrow x^2 + y^2 = e^2 (x+d)^2 \\ &\Leftrightarrow (1-e^2)x^2 + y^2 - 2edx - e^2d^2 = 0 \end{aligned}$$