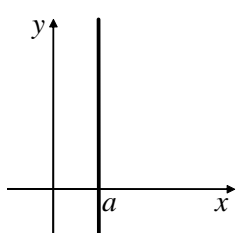
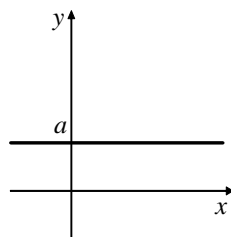


EXERCICES DE RÉVISIONS : ANALYSE COMPLEXE-CHAPITRE II

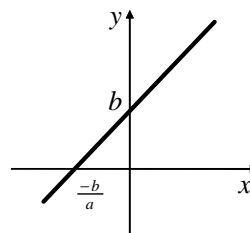
Quelques Courbes du Plan et leurs Équations



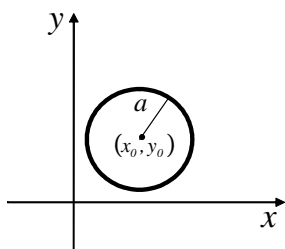
Droite: $x = a$.



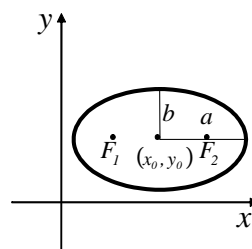
Droite: $y = a$.



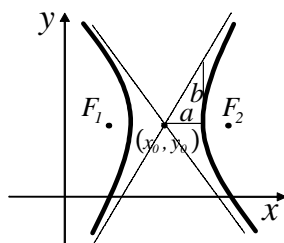
Droite: $y = ax + b$.



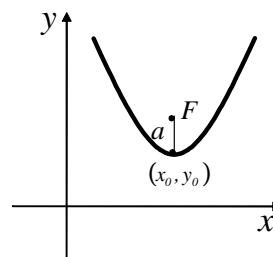
Cercle: $(x - x_0)^2 + (y - y_0)^2 = a^2$.



Ellipse: $\frac{(x - x_0)^2}{a^2} + \frac{(y - y_0)^2}{b^2} = 1$.

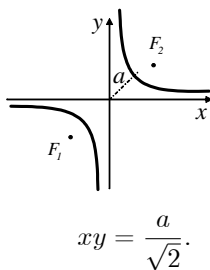


Hyperbole: $\frac{(x - x_0)^2}{a^2} - \frac{(y - y_0)^2}{b^2} = 1$.

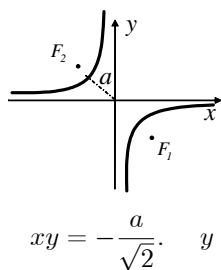


Parabole: $y - y_0 = \frac{(x - x_0)^2}{4a}$.

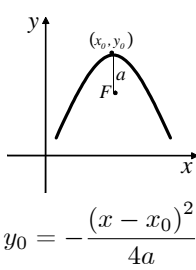
Autres positions de l'hyperbole et de la parabole



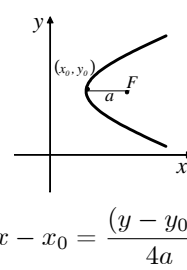
$xy = \frac{a}{\sqrt{2}}$.



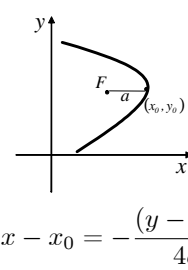
$xy = -\frac{a}{\sqrt{2}}$.



$y - y_0 = -\frac{(x - x_0)^2}{4a}$.



$x - x_0 = \frac{(y - y_0)^2}{4a}$.



$x - x_0 = -\frac{(y - y_0)^2}{4a}$.

Transformations Conformes du Plan complexe

Si une transformation de la variable z du plan complexe garde les angles inchangés elle est appelée transformation conforme.

(Une transformation $z = f(z)$ est conforme si f est une fonction holomorphe (Voir Chap.III))