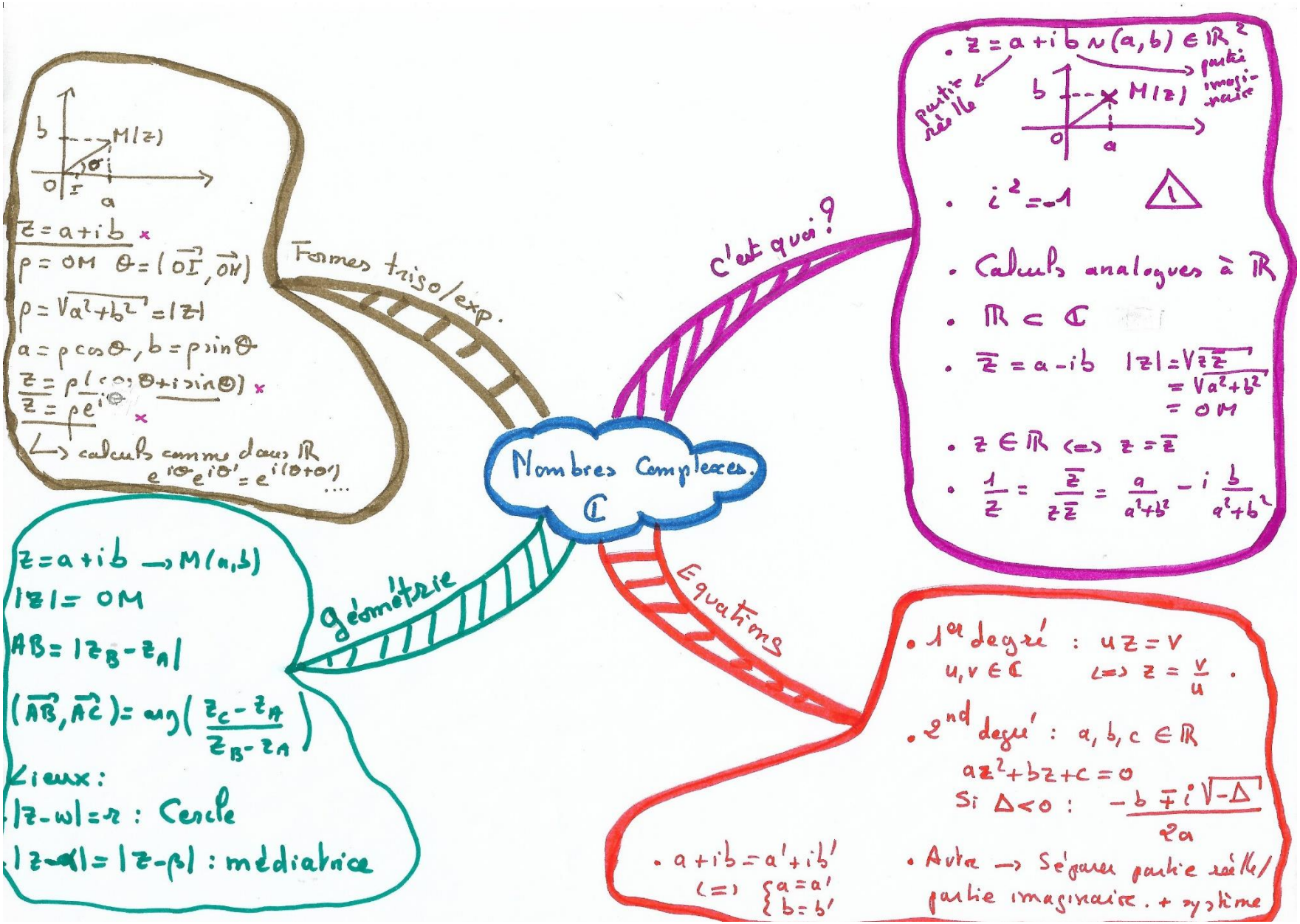
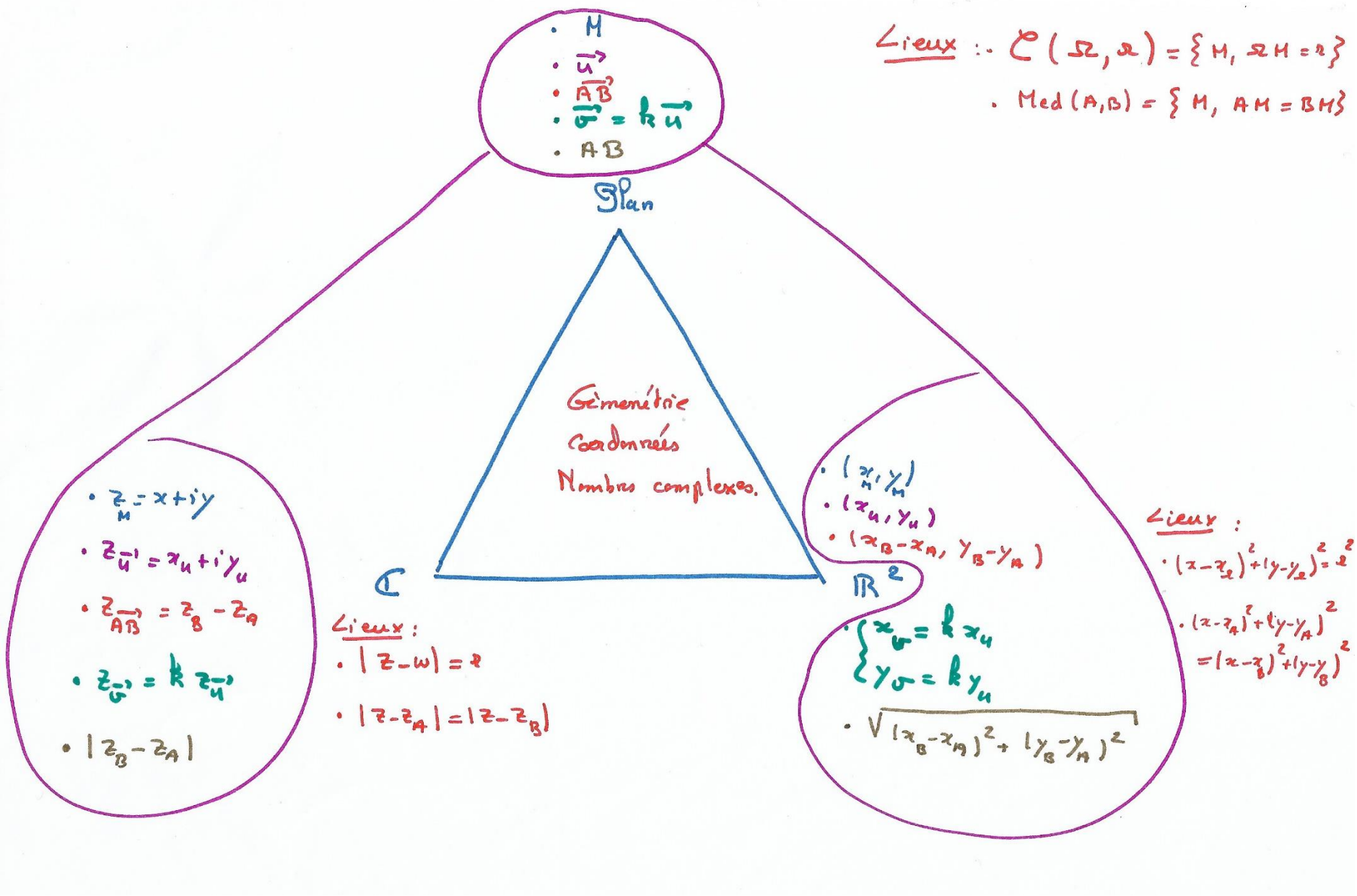




Trigonométrie

Formules

$\cos^2 x + \sin^2 x = 1$ (Pythagore)

Duplication :

$\cos(a+b) = \cos a \cos b - \sin a \sin b$

$\sin(a+b) = \sin a \cos b + \sin b \cos a$

Symétries

$\cos(-x) = \cos x$

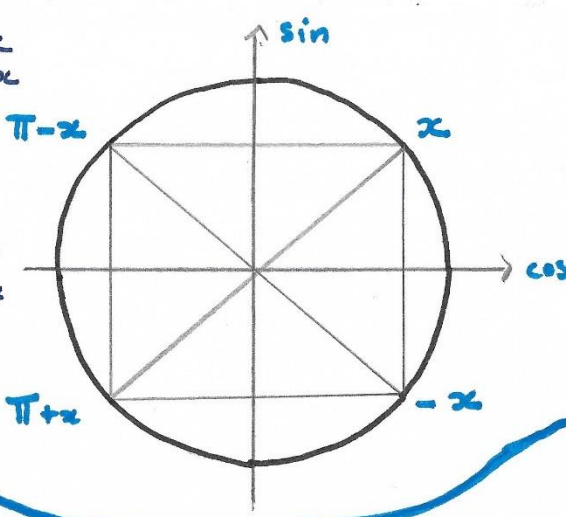
$\sin(-x) = -\sin x$

$\cos(\pi - x) = -\cos x$

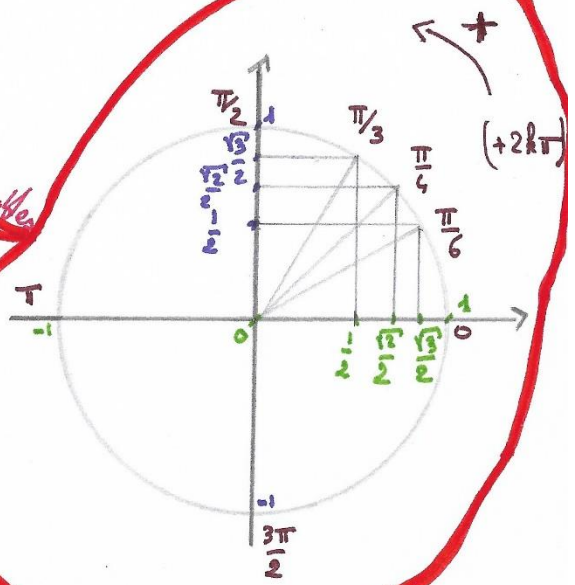
$\sin(\pi - x) = \sin x$

$\cos(\pi + x) = -\cos x$

$\sin(\pi + x) = -\sin x$



Angles remarquables



Equations

$\cos x = \cos a \iff \begin{cases} x = a + 2k\pi, & k \in \mathbb{Z} \\ \text{ou} \\ x = -a + 2k\pi, & k \in \mathbb{Z} \end{cases}$

$\sin x = \sin a \iff \begin{cases} x = a + 2k\pi, & k \in \mathbb{Z} \\ \text{ou} \\ x = \pi - a + 2k\pi, & k \in \mathbb{Z} \end{cases}$