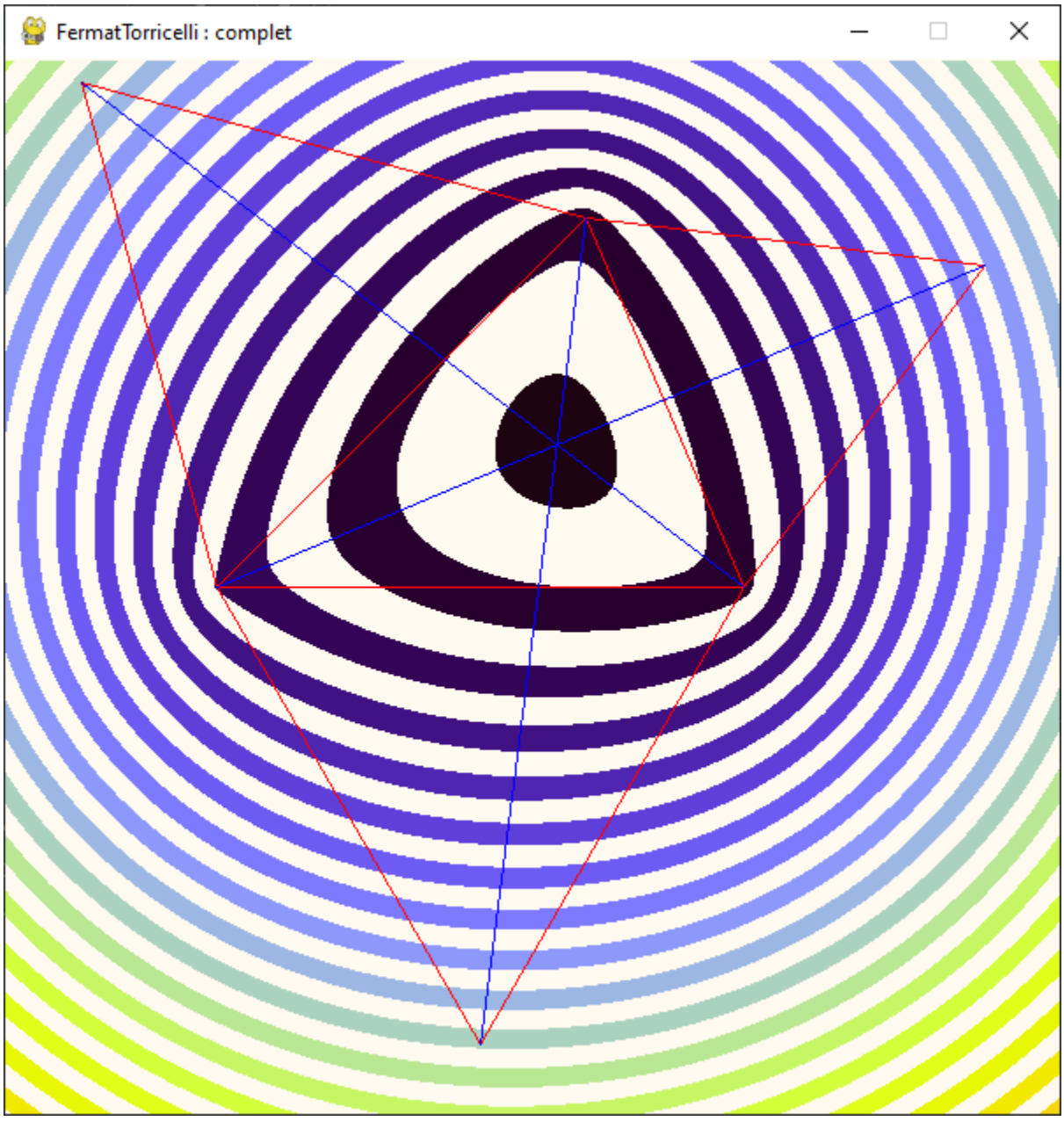
Curs 05
(*plan de curs*)

1. Punctul lui Fermat. Punctul lui Torricelli, centrul izogonal. Triunghiul lui Napoleon.

2. Olomorfie



```
import ComplexPygame as C
import Color
import math


def FermatTorricelli():
    C.setXminXmaxYminYmax(-10, 10, -10, 10)
    C.fillScreen(Color.Floralwhite)
    a = 1 + 7j
    b = 4
    c = -6
    # trasam curbele de nivel |z-a|+|z-b|+|z-c|=const
    for z in C.screenAffixes():
        s=int(C.rho(z-a)+C.rho(z-b)+C.rho(z-c))
        if s % 2 == 1:
            C.setPixel(z,Color.Index(800 + 10 * s))

    omega = C.fromRhoTheta(1, math.pi / 3)
    aprim = b + omega * (c - b)
    bprim = c + omega * (a - c)
    cprim = a + omega * (b - a)

    C.drawNgon([a, b, cprim],Color.Red)
    C.drawNgon([a, bprim, c], Color.Red)
    C.drawNgon([aprim, b, c], Color.Red)

    C.drawLine(a, aprim, Color.Blue)
    C.drawLine(b, bprim, Color.Blue)
    C.drawLine(c, cprim, Color.Blue)



if __name__ == '__main__':
    C.initPygame()
    C.run(FermatTorricelli)
```