

Basic Algorithms and Programming

Practice 3

4TPU140U

The functions : a library of geometry

You will write a small geometry library.

Download the file `geometry.py`, located at <https://www.labri.fr/perso/boussica/archives/cours/4TPU140U/geometry.py>.

- Implement the functions that are present in this file.
- In a file `test_geometry.py`, import the library `geometry.py` and test your library with different good examples.
- How do you define a function that takes as parameters a polygon and a vector v , and returns a polygon translated by v ? Add this function to your library and test that new function.
- How do you define a function that returns true if a segment intersect a polygon, and false in the other case? Implement and test that function.