NC301μ Introduction to Numerical Computing with SciPy

Quizz 1: Numerical computing with SciPy

This assessment evaluates the following competencies:

- *NC101 – Understand what is numerical computing* *(+1)*
- *PP401 – Use NumPy to represent multidimensional arrays and perform operations with them (+1)*

Three affirmations are given for each assessed competency. For each of them, you have to decide whether it is true or false. To get a star for the competency, you must have the correct answer for the three affirmations.

NC101	True	False
Finding the primitive integral $\int f(x)\,dx$ of a given function $f(x)$ is the typical kind of problem solved with numerical computing.	☐	☐
Numerical methods are perfect and never produce any error for the computed results.	☐	☐
SciPy is a toolbox application that can be used to easily perform numerical computations.	☐	☐

PP401	True	False
The main and most important object defined in the `numpy` module to represent multidimensional arrays is the `matrix` object.	☐	☐
The dimension of the `a = np.arange(10)` multidimensional array is $(9,)$.	☐	☐
The elements contained in a mask can either be boolean or positive integer numbers.	☐	☐