

*NC301μ Introduction to Numerical Computing with SciPy*

## Quiz 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Numerical methods are perfect and never produce any error for the computed results.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SciPy is a toolbox application that can be used to easily perform numerical computations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PP401	True	False
The main and most important object defined in the <code>numpy</code> module to represent multidimensional arrays is the <code>matrix</code> object.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The dimension of the <code>a = np.arange(10)</code> multidimensional array is (9,). <i>shape</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The elements contained in a mask can either be boolean or positive integer numbers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>