

**MATHEMATICS TEST PROGRAMME FOR THE ACCESS AND ADMISSION TO HIGHER
EDUCATION
FOR OVER 23 YEARS OLD, AT UFP**

General Aims:

- To understand basic concepts and notions in Mathematics.
- To demonstrate application of the logic, method and organization of Mathematical thinking.
- To create and improve on previous knowledge to allow further studies in Higher Education Mathematics.

Syllabus:

1. Sets and Real numbers.
 - 1.1. Sets
 - 1.2. Representation of real numbers.
2. Equations and Inequations.
 - 2.1. Equações ou igualdades.
 - 2.2. Inequações ou desigualdades.
3. Functions and equations.
 - 3.1. Functions and linear equations.
 - 3.1.1. Linear equations.
 - 3.1.2. Functions.
 - 3.2. Domains and zeros of real functions of real variables.
 - 3.2.1. Domain of a function.
 - 3.2.2. Zeros of a function.
 - 3.3. Polynomial and Quadratic functions.
 - 3.4. Polynomy decomposition.
 - 3.5. Exponential and logarithmic functions.
 - 3.5.1. Exponential functions.
 - 3.5.2. Logarithmic functions.

Bibliography:

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