

EDUCATIONAL INNOVATION PROJECT IN BUSINESS MATHEMATICS

*Obligatorio

How often do you teach this item?

I never teach it	I sometimes teach it	I always teach it
0	1	2

QUESTION 1 *

1. Sequences: concept and Sequence Limits.

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QUESTION 2 *

Geometric progressions and their sum.

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QUESTION 3 *

Power series. Study of its nature.

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QUESTION 4 *

3. Series: Convergence tests.

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QUESTION 5 *

Functions: Definition of real functions of one or several variables

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QUESTION 6 *

Domain and representation of one-variable real functions

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QUESTION 7 *

One-variable functions ($\mathbb{R} \rightarrow \mathbb{R}$): continuity and derivability.

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QUESTION 8 *

Optimization.

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QUESTION 9 *

Differential. Approximation of functions by means of the differential.

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QUESTION 10 *

Taylor's Polynomial.

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QUESTION 11 *

Computation of integrals

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QUESTION 12 *

Integration methods.

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QUESTION 13 *

Riemann's integral. Fundamental Theorems of Integral Calculus.

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QUESTION 14 *

Improper Integrals. Gamma and Beta functions.

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QUESTION 15 *

Recurrence Equations

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QUESTION 16 *

Differential equations.

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QUESTION 17 *

Multiple-variable functions ($\{R\}^N \rightarrow R$): Level curves.

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QUESTION 18 *

Partial derivatives: Gradient and Hessian. Differentiable functions.

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QUESTION 19 *

The Chain Rule for multiple-variable functions.

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QUESTION 20 *

Deriving Implicit functions. Implicit Function Theorem.

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QUESTION 21 *

Homogeneous functions. Euler's Theorem.

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QUESTION 22 *

Review of matrices and vector spaces.

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QUESTION 23 *

Diagonalization of square matrices. Eigenvalues and eigenvectors.

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QUESTION 24 *

Sign of a quadratic form.

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QUESTION 25 *

Optimization without constraints.

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QUESTION 26 *

Optimization with equality constraints. Lagrange multiplier method.

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QUESTION 27 *

Linear programming in two variables

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QUESTION 28 *

Optimization with inequality constraints. Kuhn-Tucker Method.

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QUESTION 29 *

Multiple integrals. Fubini's Theorem.

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QUESTION 30 *

Integration in general domains.

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 100%: has terminado.

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