



Gymnázium Evolution

Czech Maturita Exam Topics 2026/2027

MATHEMATICS: ANALYSIS AND APPROACHES HL

Tools allowed: Casio fx-CG50; Mathematics: applications and interpretation formula booklet; geometry tools

1. Algebraic Equations (linear, quadratic, rational, irrational)
2. Algebraic Functions (linear, quadratic, rational, irrational, powers)
3. Functions - characteristics
4. Polynomials and Polynomial Functions (Viète formulae, factor and remainder theorem, graph)
5. Sequences and Series
6. Exponential Functions and Equations
7. Logarithmic Functions and Equations
8. Trigonometric Functions
9. Trigonometric Equations
10. Trigonometry
11. Complex Numbers
12. Proofs
13. Vector Algebra
14. Analytic Geometry
15. Descriptive Statistics
16. Bivariate Statistics - correlation, linear regression
17. Counting Principles, Factorials, Binomial Theorem
18. Probability
19. Limits
20. Differentiation of the function
21. Differential Calculus - properties of curves, tangent, normal
22. Integration of the function

23. Integral Calculus – areas enclosed by curves, volumes of revolution