

Entrance mathematics examination

Entrance mathematics examination in AUCA is a test, but actually it is a written work, as the examinees should find a solution of the proposed task before selecting the correct answer. Tests are based on secondary school program of the Kyrgyz Republic and include the following sections of the school mathematics:

1. Arithmetic calculation.
2. Identical transformations of algebraic expressions.
3. Transformations of trigonometric expressions, calculations using trigonometric formulas.
4. Systems of algebraic equations.
5. First order equation with absolute value of variable.
6. Irrational equations.
7. Exponential equations.
8. Trigonometric equations.
9. Investigation of quadratic trinomial and solution of quadratic inequalities.
10. Rational inequalities.
11. Irrational inequalities.
12. Logarithmic inequalities.
13. Arithmetic and geometric progressions.
14. Investigation of functions and construction of graphs.
15. Tasks with requirement to generate equations.
16. Plane geometry.
17. "Nonstandard" tasks.

The test lasts 1,5 hours, it is forbidden to use calculators and cellular telephones. The maximum score that an applicant can receive is equal to 100.

Purposes of testing

- ✓ Examination of mathematical knowledge and skills, acquired at school, and the ability to apply knowledge of school mathematics in solving nonstandard problems.
- ✓ Evaluation of abstract analytical thinking and ability to think logically.
- ✓ Development of recommendations for further education in AUCA, in accordance with the requirements of various majors.