

VIII INTERNATIONAL MATHEMATICAL OLYMPIAD

"FORMULA OF UNITY" 2019/20



Olympiad

«Formula of Unity» / «The Third Millennium»

2019 — 2020: Mathematics

La Sociedad Andaluza de Educación Matemática Thales - Proyecto Estalmat Andalucía - en colaboración con el Instituto de Matemáticas de la Universidad de Sevilla y la Fundación Euler de San Petersburgo invita a los alumnos/as de IES y colegios de **Andalucía** a participar en la VIII **International Mathematical Olympiad "Formula de Unity"**

La olimpiada está dirigida a los escolares de:

5ºGRADO/11años/6PRIMARIA a **11ºGRADO/17 años /2Bach**

Consta de dos fases:

- La **primera fase (a distancia)** tendrá lugar **del 15 de Octubre a 12 de Noviembre de 2019**. Los problemas están publicados en <https://www.formulo.org/en/olymp/2019-math-en/>

Se enviará la inscripción y documento (txt, doc, docx or pdf) con las soluciones de los problemas propuestos en el formulario de la web, y preferiblemente en inglés, ya que la segunda fase será el idioma obligatorio.

- La **segunda fase (presencial)** se llevará a cabo simultáneamente en muchas ciudades de Rusia y en otros países. Nuestras sedes serán en **Sevilla y Granada**. La fecha prevista será en **febrero o marzo de 2020**.

Para cualquier duda podéis escribir a la dirección de correo electrónico

fdi.olympiad.es@gmail.com

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The Olympiad is organized by [Peter the Great St. Petersburg Polytechnic University](#), [MIREA — Russian Technological University](#), [Northern \(Arctic\) Federal University named after M.V. Lomonosov](#) and [Euler Foundation](#).

School students of grades 5–11 from Russia and of [equivalent grades from all over the world](#) are invited to participate.

Participation in the competition is free. All school students can take part in the first round and the winners of the first round are invited to the second round. Winners of the previous Olympiad (with diplomas of any degree) are also invited directly to the second round. Participants with the best results in the second round will be awarded with diplomas and invited (with reduced fee) to the international mathematical camp «Formulo de Integreco».

You can send your questions to the organizers to olimp@formulo.org.

Start of the qualifying round

October 15, 2019

Here is the qualifying (remote) round of the competition. You can solve problems **until November 12, 2019 inclusively**.

Please remember that your solution of every problem should include not only the right answer but the full reasoning as well.

We will be happy if your friends who like mathematics also participate. However, every assignment should be done individually; otherwise, your submission will not be considered.

You can write your solutions by hand and scan them or type them using a text editor. Solutions should be written in English, Esperanto, French, Georgian, German, Kazakh, Persian, Romanian, Russian, Spanish, Thai, Turkish, Ukrainian or Uzbek. Use of other languages should be agreed with the organizers in advance.

You do not need to repeat the text of the problems in your paper; please write down your solutions only. For anonymous grading, you **should not write your name** on the paper sheets with solutions.

The winners of Olympiad 2018/19 (those with Diplomas I-III) can participate directly in the final round.

How to submit solutions

The solutions should be submitted to the Jury **by November 12** using this online form:

• [SEND YOUR SOLUTIONS HERE](#)

You can upload both text files (in TXT, DOC, DOCX or PDF formats) and scans of paper works (in JPG and PNG formats). The total number of files should not exceed 10. The files with the solutions of the problems **should not contain** the surname, name and other personal data of the participant!

Nota Bene! It is not allowed to use the same registration data for sending works of several participants. If you are a teacher and want to send papers of several students, please write about this to the organizing Committee, and we will offer a convenient way to do it.

Any questions?

You can send your questions (but not the solutions of problems) to the organizers to olimp@formulo.org.

GOOD LUCK!

“Grade” in the FdI Olympiad	Russia, Belarus, Kazakhstan, Romania, Tajikistan	Canada, Germany, Israel, USA	Spain	France	Ecuador
R5	5	6	6° E.P.	CM2	7mo año de EGB
R6	6	7	1° E.S.O.	6	8vo año de EGB
R7	7	8	2° E.S.O.	5	9no año de EGB
R8	8	9	3° E.S.O.	4	10mo año de EGB
R9	9	10	4° E.S.O.	3	1er año de bachillerato
R10	10	11	1° Bachillerato	2	2do año de bachillerato
R11	11	12	2° Bachillerato	1	3er año de bachillerato