

MATH 7
LETTER TO STUDENTS AND PARENTS
SEPTEMBER 16, 2018

WELCOME TO MATH 7 AT SCHOOLNOVA!!

Here are some of the topics we plan to study this year:

- Sets and logic. Truth tables; operations with sets.
- Sequences; arithmetic and geometric progressions. Fibonacci numbers.
- Right triangle, sin and cos.
- Elementary combinatorics; permutations. Pascal triangle
- Basic algebra review; opening parentheses, Simplifying algebraic expressions
- Radicals and powers.
- Absolute values and solving equations involving absolute values
- Quadratic equation. Parabola. Quadratic formula; Vieta formulas.
- Quadratic and higher degree inequalities

1. HOMEWORKS

Homework is very important, because you learn math only if you work on your own on interesting problems. Start early in the week and try every problem in the homework. Write down your solutions and be ready to hand them in the next time we have class together. Write not only the answer but also how you arrived to your answer.

All homeworks will be posted online at

<http://www.schoolnova.com> (select Homeworks on the navigation bar on the left).

I ask that each student bring a notebook (preferably quad ruled), pencils and a folder or binder to keep old assignments

2. COMPETITIONS

We also plan to participate in the AMC 8 (in November), AMC 10 (in February) and Math Kangaroo (in March) math contest. More details will be given later.