

# Honors ALGEBRA II

## SUMMER ASSIGNMENT

INSTRUCTOR: Mr Chris Kelly

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### Dear Honors Algebra II Student

Completing this summer assignment will help you understand the necessary requirements for your upcoming course. The content and philosophy of the assignment align with our department's objectives for high school students. That is,

- Value Mathematics
- Become confident in your ability to do mathematics
- Become a mathematical problem solver
- Communicate mathematically
- Reason mathematically

These summer topics will be reviewed during the first week of school. You are responsible for knowing how to solve each type of problem fluently.

### Guidelines

1. Complete each topic to at least **75% of proficiency**
2. Do **not** use a calculator unless otherwise instructed
3. **Use pencil and paper** to work on problems; not all of them can be done using mental math
4. It is better that you complete this assignment in the last 2-3 weeks before school starts to maximize recall once school starts.
5. **Pacing:** Do 10-15 exercises per day (~1 hour), and you will have completed the assignment in 10 days (~10 hours). Do not attempt to complete the packet on the last day before school starts.

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## List IXL Topics (Algebra I)

### B. Expressions

- B.6
- B.7
- B.9

### C. Solve Linear Equations

- C.6
- C.7
- C.8
- C.10

### F. Solve linear inequalities

- F.8
- F.10
- F.14

### H. Absolute Value Eqs and Inequalities

- H.1

### L. Linear Equations

- L.6
- L.8
- L.9
- L.12
- L.13
- L.18
- L.19

### M. Function Concepts

- Q.7

### P. Two-variable linear inequalities

- P.3

### O. System of Linear Equations

- O.8
- O.10

### R. Integer Exponents

- R.7
- R.8
- R.9
- R.10
- R.11

### T. Scientific Notation

- T.3
- T.4
- T.5

### W. Polynomials

- W.8
- W.9
- W.11

### Z. Quadratic Equations

- Z.1
- Z.2
- Z.6

### FF. Radical Expressions

- EE.2
- EE.4

### GG. Rational Functions

- GG.1
- GG.2
- GG.3

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You will take a **diagnostic quiz on this summer packet study material on the first or second week of school**. The quiz will consist of approximately 20 free-response questions, and you will not be able to use a calculator on the test. This will be considered a quiz grade for your first quarter.

If you do not know how to solve a problem, you are expected to use the sources available to you, for example, Khan Academy, to figure it out independently. You can also get help the week before school starts. Specific days and times are announced via an email that is sent to both you and your parents.

### **How to start (IMPORTANT)**

1. Login to your IXL account with the following username: firstnamelastname or firstnamelastname301
2. If you are a **new** student, contact [techcenter@asfg.edu.mx](mailto:techcenter@asfg.edu.mx) at ASFG so that you get your IXL account activated
3. If you do not remember the password, click on "Forgot my password" to reset it (Recommendation: Use your Google Account Data)
4. Go to **Algebra I** IXL Curricula
5. Start!!

Enjoy your summer, and do your best!