

Honors Advanced Algebra // Herro // 2018-2019

Honors Advanced Algebra relies heavily on a substantive amount of Algebra I material that supports the exploration of advanced algebra topics. In order to ensure that we are successful at the start of the year, it is important that each student reviews and refreshes the fundamental components of Algebra I that will be used in Algebra II. These include:

- Simplifying Expressions
- Absolute Value (simplifying, solving, and graphing)
- Solving Linear Equations
- Inequalities (simplifying, solving, and graphing)
- Graphing Lines (standard, slope y-intercept, and point-slope forms)
- Solving Systems of Equations by graphing, substitution and elimination
- Basic operations on Polynomials

THROUGHOUT THE SUMMER

Relax, enjoy family time, hang out with friends, eat popsicles, watch baseball, help out with the yard work but in an ongoing manner, throughout July and August when you have a little extra time, work to keep your math skills sharp and 'at-the-ready'. The internet offers so many tutorials and practice opportunities to get/stay solid on the topics listed above that I charge you with making certain that your Algebra 1 skills are at MaSTErY LEvEL when you walk through the door to 307 in September. Be sure to know the first 20 perfect squares, first 7 perfect cubes, eight powers of 2, by heart...no time for that later...too much to learn then. I have plenty of resources—if you want more practice e-mail me and I'll send some extra problem sets.

TURN-IN ASSIGNMENT "THE TOP 40"

As odd as this may sound...***I want you to procrastinate*** the start of this particular set of exercises...**COMPLETE THESE 40 PROBLEMS DURING THE LAST TWO WEEKS OF SUMMER BREAK.** I expect you to work without assistance on this portion of your summer work; do not use any resource other than yourself, your recall, your understanding! THIS SHOULD BE AN INDEPENDENT EFFORT; DO NOT COLLABORATE. The intention is that these 40 problems serve as a good measure of your facility and essential understanding.

You are to complete this problem set in pencil directly on the handout itself...due on the first day of school (no late work accepted). Your work should follow an organized vertical format, be well labeled, and easy to follow with sufficient steps included so as to reveal your reasoning process. It will be scored and entered for CFC (check for completion) credit. You may contact me at any time with your clarifying questions.

SCHOOL SUPPLIES

These items sell out *fast & early* and they will be used on the first day of class...might as well get 2 of each, if you can: 6-inch straightedge, 8.5 x 11 SPIRAL-BOUND grid/graph paper notebook (NOT one of those cute little bound composition books) get a full-sized grid on both sides of the page type notebook (available at Fred Meyer, Duck Store, Walmart, office supply store), 3 colored pencils/pens for annotating. A graphing calculator will be used throughout your mathematics study TI-84, any vintage is ideal (TI-89 not permitted).

FIRST REQUIRED ASSIGNMENT: Email me at jherro@marisths.org to introduce yourself and to indicate that you understand the summer work expectations and procedures, and are ready to *rock some serious math this year*. **DO NOT DELAY — DO THIS NOW** so that I have a student contact list! -JRo