Greetings from the Land of Trigonometry/Pre-Calculus,

The mathematical "step" from Algebra 2 to Trigonometry/Pre-Calculus AB can be very challenging as this rigorous course is fast-paced and tailored to prepare students for AP Calculus AB. There are several topics covered in the Honors Algebra 2 class which Algebra 2 does not cover, due to pacing constraints. Students who do not take the time to catch up on the missing topics find it difficult to be successful in Trig/Pre-Calc. AB. The Algebra 2 staff met and came up with a brief list of topics students need to learn over the summer in order to bridge this knowledge gap. **This assignment is not mandatory but highly recommended.** 

- The following assignments are taken from: Holt McDougal Algebra 2 (HMH Fuse Algebra 2) – Common Core App Edition
- Students should watch the videos found in the book for each section before attempting the assignments.
- Solutions are posted online. <u>https://learn.vcs.net/course/view.php?id=1112</u>

## **Chapter Section/Concept/Assignment**

- Chapter 12.5 → Parabolas (focus and directrix) Do Problems: 12.5 #18 – 36m3, 37; 12.6 #22, 26, 30
- Chapter 10.5 → Law of Sines Do Problems: 10.5 #15 – 30m3, 32, 34, 38
- Chapter 10.6 → Law of Cosines and Heron's Formula Do Problems: 10.6 #9 – 21m3, 27 – 33 odd
- 4. Chapter 11.1 → Graphs of Sine and Cosine Do Problems: 11.1a #12 – 18, 24, 33, 35 11.1b #19-23, 25, 27, 34, 36
- 5. Chapter 11.2 → Graphs of other Trig Functions
  Do Problems: 11.2a #10, 12, 13, 21 11.2b #11, 27, 29, 31

Practicing ALEKs over the summer is a great way to keep algebra skills sharp. The Trig/Pre-Calc AB class prerequisites assume students walk into the school year with strong Algebra 2 skills, which means there is no Algebra 2 review at the beginning of the semester.

Our hope is that you have a restful summer, and that everyone returns to school refreshed and ready to enter the exciting realm of Trigonometry/Pre-calculus AB.

We are looking forward to meeting you in the fall!

---The Trigonometry/Pre-Calculus AB Teaching Team