

Dear Future Honors Pre-calculus Students,

This summer you will be given an opportunity to explore the world of Honors Pre-calculus before you even enter the classroom. You have the opportunity to start a work on a multiple packet over the summer. Being honors mathematics students, we know that you share our passion for math, therefore what would a summer be without a little mathematical challenge. This packet is neither required nor meant to intimidate you. The purpose of this packet is to expose you to the material that we (your teacher) expect you to be able to apply to new objectives in Honors Pre-calculus. This packet will allow you to recall topics you covered in previous courses and see what concepts you remember and which topics you might need revisit. As a class, we will go over the entire packet. If you are struggling with certain parts of the packet, do not fear!

We do not expect that you remember all the topics in the packet immediately. What we do expect is that you are willing to try each problem and maybe even do some research to help you. If you are struggling, there are several ways you can help yourself.

- Look at your notebook from previous courses.
- Look up your text from your previous course online.
- Go to <http://www.hippocampus.org/> (a mathematics website).
- Check out Google
- Discuss concepts with your peers.
- Attack the problem in a different way (you might surprise yourself).

There are challenging aspects of this packet which may require you to sit down and really think about the question. As you will discover next year, Honors Pre-calculus is not only about finding the correct answer, but about being able to apply previous knowledge in new ways. We might show you how to graph an equation, and then we might assess you on your ability to write the equation form the graph.

The challenge of Honors Pre-calculus is being able to apply the skills you know, in ways that may seem foreign. This course is aimed to improve your reasoning skills and encourage you to see the joy in problem solving. We know that you are all capable of success if you truly put your mind to it. Remember this packet is not required and we will be going over it in class. The purpose is to give you a jump start on the course. If you do not finish this packet, that does not mean you will not be successful in this course. If you struggle with this packet, it also does not mean you will not be successful in this course. If you really put forth your best effort towards this packet, you will be better prepared for the exciting challenges you will experience in Honors Pre-calculus.

Sincerely,

Your Future Teacher