

Hello future calculus students.

At the end of your pre-calculus class you may have taken a 25 problem multiple choice diagnostic test. If you did not take that test in your pre-calculus class then download the diagnostic test from Mr. Merritt's website by following the directions below. Each problem on the test is linked to a pre-calculus skill that is crucial for success in an AP calculus course. Use the answer grid, which is also on the web site, to check your answers. All of the questions are linked to topics in 21 review modules. Use the table of contents list along with the answer grid to decide which topics you may need to review.

On Mr. Merritt's website are review modules that cover the 21 crucial pre-calculus topics (modules A through U) needed for our AP calculus course. Each module reviews a topic, gives many worked examples and then gives an assignment. The following 3 modules are mandatory: module C (graphs of function families), module I (Rational Functions and Asymptotes), and module U (using your calculator to solve equations and inequalities). In addition to those modules, you must complete 8 more modules on the topics of your choice. Most of you will want/need to do more than 8 modules. If you were to do all the modules it would take about 8 hours. This should be spread over the summer. Save the work that you do. Your work will be checked for completion and the solutions will be posted for you to check accuracy during the first week of school. During the first semester you will be assessed on these skills.

So to be clear: For the summer you need to:

\_\_\_\_\_ take the diagnostic test,

\_\_\_\_\_ do modules C, I and U

\_\_\_\_\_ select a minimum of 8 more modules and complete the assignments for those 8 modules.

If you feel you need more review don't limit yourself to 8 topics.

\_\_\_\_\_ In the Fall when you return, each module you selected will be checked for completion, then you will check each module for accuracy. During the 1<sup>st</sup> semester you will be assessed for competency of these topics.

### **Instructions for downloading the Summer Assignment**

The modules and the diagnostic test can be found on Mr. Merritt's web site at <https://woodinville.nsd.org/t/~board/ernie-merritt> or by going to the WHS web site and linking through the staff page to Mr. Merritt's web site. Then click on the Calculus File Library to find all the information about the summer assignment. You will need to log in with your district username and password since all the material for the summer assignment is copyrighted and password protected.

Good luck and feel free to email Mr. Merritt with any questions at [emeritt@nsd.org](mailto:emeritt@nsd.org).

We are looking forward to another amazing year in Calculus!

Have a great summer!

Mr. Merritt and Mrs. Gruber