

## 12<sup>th</sup> Grade Assignment – Week #6

### Announcements:

- *Overview.* This is the first week of our four-week calculus main lesson. Calculus ranks as one of the greatest achievements of the human mind. The content of this Main Lesson block will include the fundamental elements of any first semester college calculus course. The material is very challenging, yet extremely rewarding when, through effort, you can grasp the profound ideas.
- *Group Work.* Although the lectures will introduce you to much of the most important content, a large focus of the course will be for you, in your student work groups, to work through the *Calculus Discovery Sheets*, which are designed to lead you to discover some of the most important concepts in calculus.
- *Test.* As opposed to most math main lessons that I teach, where I do not believe that a final test is beneficial, this main lesson does end with a final test. My hope is that you can penetrate and learn the material well the test will be a positive experience for you.
- *Main Lesson Book Pages.* Creating your own comprehensive main lesson book is not required. However, I encourage you to create a single “summary page” each week which nicely summarizes the topics covered during the week.
- There is no separate course report for this main lesson.

### Group Assignments:

#### *For Tuesday*

- Work through the problems on *Discovery Sheet #2*. Limit your selves to 25 minutes on this sheet.
- Get as far as you can with the problems on *Discovery Sheet #3*.

#### *For Thursday*

- Work through the problems on *Discovery Sheet #4*. Limit your selves to 25 minutes on this sheet.
- Get as far as you can with the problems on *Discovery Sheet #5*.

### Individual Work

- As much as you can, complete any of the group assignment that your group didn't finish.
- Create a “summary page” for the week.