



**THE KING'S ACADEMY**  
**AP Calculus!**

**Mr. Palm**  
**rick.palm@tka.org**  
**Room P23**

**Mr. Weiss**  
**steve.weiss@tka.org**  
**Room P21**

Welcome to AP Calculus! We are looking forward to working through this course with you! I (Mr. Palm) took AP Calculus in high school, and feel that was one of the best moves I made. The solid foundation I got in calculus was a huge help in studying engineering.

You have three assignments for the summer: (1) acquire a calculator, (2) acquire a textbook, and (3) brush up your math skills.

### **Calculator**

We will be making extensive use of graphing calculators in class. You will need them for homework, quizzes and tests. Your calculator must be one of the following:

TI 83 Plus – a good general-purpose graphing calculator, usable for both calculus and statistics. If you have one, feel free to use it, but if you are buying one, we strongly recommend the TI-84 plus instead.

TI 84 Plus – our first choice for AP Calculus and AP Statistics, the TI 84 Plus is a good general-purpose graphing calculator, usable on SAT, AP, and ACT exams.

TI 89 Titanium – this calculator is more powerful, in that it can do symbolic manipulation. It is the favorite of many calculus students. It is usable on SAT and AP exams, but *not* for the ACT. Some college math classes prohibit the use of this calculator because of its symbolic manipulation capability.

You need to bring your calculator to class every day (including the first day of class!)

### **Textbook**

The textbook we will be using is

*Calculus: Graphing, Numerical, Algebraic*, Finney, Demana, Waits, Kennedy, Fourth Edition (2012), Pearson. ISBN 978-0-13-317857-9.

You can find them on amazon.com, half.com, and textbooks.com, among others—just search for the ISBN number above.

You need your textbook *soon* to accomplish the next assignment.

### **Brush up on Algebra, etc.**

Chapter 1 in our text is review of material that you have covered in your previous math classes. To review over the summer, read chapter 1 and do the assigned exercises below. You do not need to complete the Challenge exercises; those are an extra challenge for those who are so motivated. The answers to the odd-numbered exercises are in the back of the book. We will collect your homework the first day of classes. Be sure to show your work!

Section 1.1, pp 9-11: 1, 5, 9, 13, 17, 21, 27, 31, 37, 41, 54. Challenge: 56

Section 1.2, pp 19-21: 3, 5, 9, 17, 23, 27, 31, 35, 39, 41, 51, 55. Challenge: 56

Section 1.3, pp 26-28: 1, 7, 13-18, 23, 25, 31

Section 1.5, pp 43-44: 1, 5, 7, 11, 15, 23, 33, 37, 39, 45. Challenge: 35 (algebraic only)

Section 1.6, pp 51-53: 1, 5-7, 9, 12, 25, 27, 29, 33, 39, 41, 47

### **Save the Date!**

Calculus Camp is tentatively scheduled for **Friday, April 24, 3:00 pm** to **Saturday, April 25, 5:00 pm**. Plan to be there!