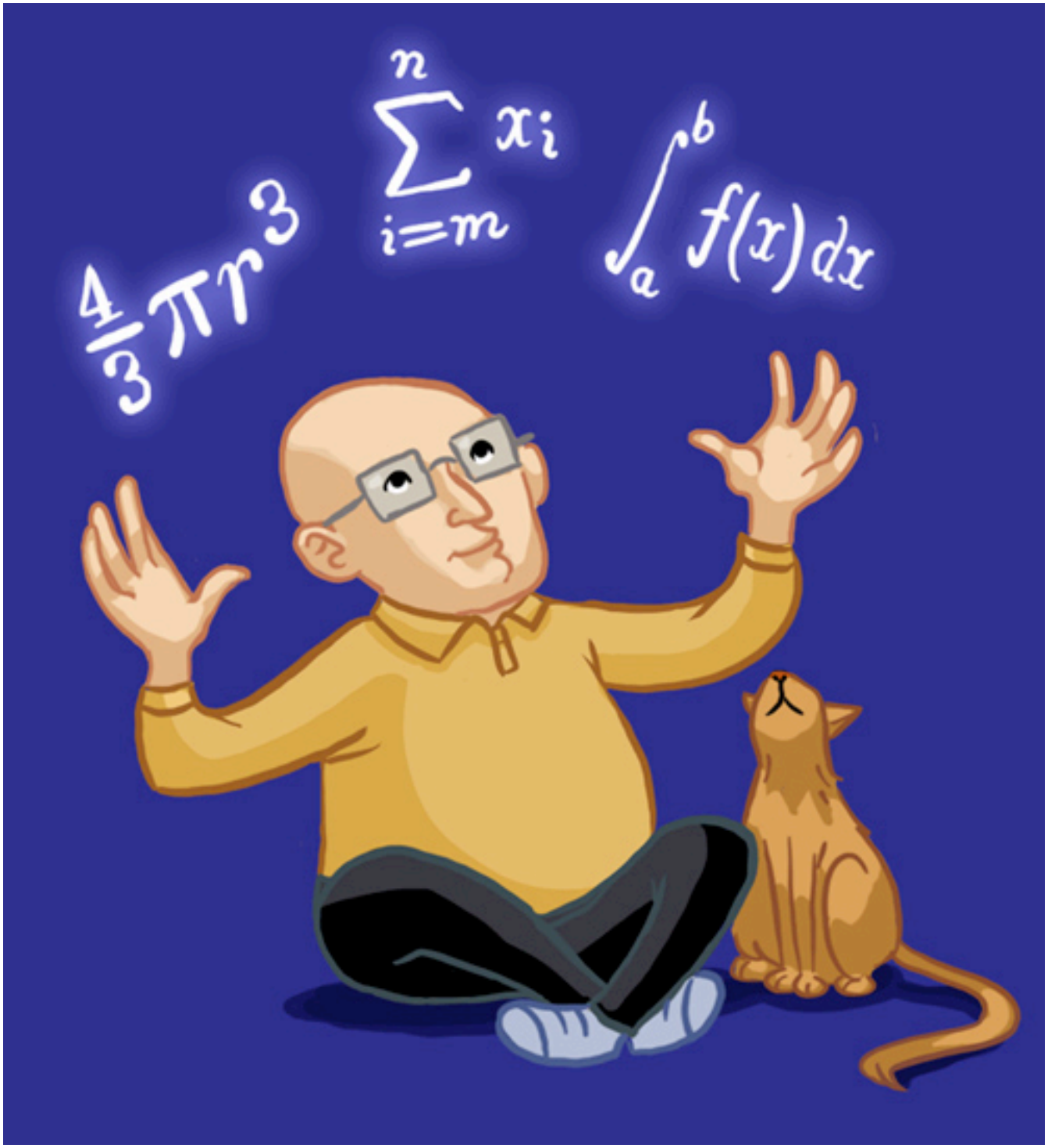

A.P. Calculus
AB Student Manual

www.mastermathmentor.com

This manual was developed for a typical Advanced Placement Calculus course by Stu Schwartz over the years 1998 - 2005. The student manual is free of charge and may be copied. Your free downloads may be copied for purposes of in-class instruction. The manuals and solution manuals may not be altered in any way in the copy process.

Graphics in this manual were produced from:

1. Texas Instruments 84 Graphing Calculator.
2. InTaglio ™ software. Intaglio@PurgatoryDesign.com.
3. Equation Editor Software for the Mac. © Design Science Corp.
4. Grapher Software: © Apple Computer Corp.

Thanks to my partner Ted Tyree for his unwavering support in all of my projects and his monumental work in bringing my materials free to anyone who wants them through the Internet. Thanks also go to Sam Tsui (Yale University) for developing the *www.mastermathmentor* logo on the cover. and to Kurt Schneider (Yale University) for helping me through some sticky math problems. Finally, my appreciation goes to all of my students who pointed out enough errors to make me glad I am semi-retired.

If you do find errors or have any questions or comments, please direct them to: *team@mastermathmentor.com*.

Table of Contents (AB Calculus)

Below are all the topics we will cover in this course. Each topic will have a classwork section where we will work out problems in class and you will take notes. Each section will also have a homework section containing many types of problems you will see on exams and on the A.P. Test.

(*) - Not required in AB Calculus