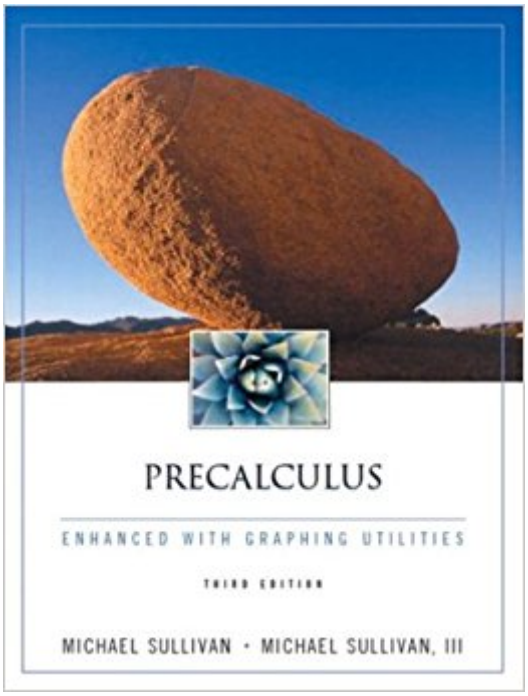
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Precalculus Enhanced With Graphing Utilities (3rd Edition)



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Synopsis

The Sullivan Enhanced with Graphing Utilities

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Customer Reviews

TO THE INSTRUCTOR As professors at both an urban public university and a community college, Michael Sullivan and Michael Sullivan, III are aware of the varied needs of Precalculus students. As a teacher, and as an author of precalculus, engineering calculus, finite mathematics, and business calculus texts, Michael understands what students must know if they are to be focused and successful in upper level mathematics courses. As a father of four, including the co-author, he also understands the realities of college life. His co-author and son, Michael III, believes passionately in the value of technology as a tool for ’learning that enhances understanding without sacrificing important skills. Precalculus texts too often are simply condensed versions of algebra and trigonometry texts. College algebra and algebra and trigonometry students are different from precalculus students and their texts should reflect this difference. For example, Chapter 13, A Preview of Calculus: the Limit, Derivative, and Integral of a Function, not only demonstrates to students how the material of Precalculus applies to calculus, but also moves the student into calculus. Throughout this text there are references to calculus, shown by a calculus icon to further motivate and remind the student that this mathematics will be used later. There are other, more subtle, aspects of this text that prepare the student for calculus. For example, many applications that are traditional to calculus have been inserted as algebra and trigonometry problems. These

examples and exercises are designed to emphasize the role of algebra and trigonometry in calculus and to encourage and motivate students in Precalculus to further insure their success in calculus. Together, Michael and Michael, III have taken great pains to ensure that this text contains solid, student-friendly examples and exercises, as well as a clear, seamless writing style. Please share with them your experiences teaching from this text. The Third Edition The Third Edition builds upon a strong foundation by integrating new features and techniques that further enhance student interest and involvement. The elements of previous editions that have proved successful remain, while many changes, some obvious, others subtle, have been made. One important benefit of authoring a successful series is the broad-based feedback upon which improvements and additions are ultimately based. Virtually every change to this edition is the result of thoughtful comments and suggestions from colleagues and students who used previous editions. We are sincerely grateful for this feedback and have tried to make changes that improve the usefulness of the text for both instructors and students. New to the Third Edition Preparing for This Section Most sections now open with a referenced list (by section and page number) of key items to review in preparation for the section ahead. This provides a just-in-time review for students. Concepts and Vocabulary At the end of every section, there is a short list of Fill-in-the-Blank and True/False items that test concepts and vocabulary in a short answer format. Several quick-answer questions are also included. Cumulative Reviews At the end of Chapters 2-12, exercises are provided that require skills learned in the earlier chapters. These cumulative reviews serve to continually rein force the important concepts of Precalculus. They also make it easier for the student to prepare for a comprehensive final examination. Content • The formula for the area of a sector and related exercises are now part of --Section 5.1 Angles and Their Measure. • Combining Waves is a new subsection in Section 7.5 Simple Harmonic Motion; Damped Motion; Combining Waves. • The Cross Product is a new section in Chapter 8 Polar Coordinates; Vectors. • The Area Problem; the Integral is a new section in Chapter 13 A Preview of Calculus: the Limit, Derivative, and Integral of a Function • New Chapter Projects have been added that discuss topics of current interest. Organization • Scatter diagrams, formerly part of Section 1.1, now appear in Section 2.2 Linear Functions and Models. This change positions the content where it is being used. • Setting up Equations; Applications, formerly Section 1.4, now is part of the Appendix. This change allows those who wish to finish Chapter 1 more quickly, the opportunity to do so. If you wish, it can be covered anytime after Section 1.4. • Circles, formerly Section 1.7, now is part of Section 1.3. • The discussion on Rational Functions, formerly Section 3.7, now appears earlier in Chapter 3 as two sections. This division makes it possible to teach the sections in

one period each. • Complex Numbers; Quadratic Equations with a Negative Discriminant, formerly Section 3.5, now is part of the Appendix. This change now makes the material of Chapter 3 more consistent in level of difficulty. For those who wish to cover quadratic equations with a negative discriminant early, this section may be covered anytime after Section 1.4. Finally, this material can be used as a just-in-time review of complex numbers before Section 3.8 Complex Zeros; Fundamental Theorem of Algebra and before Section 8.3 The Complex Plane; DeMoivre's Theorem. • Section 4.3, Exponential Functions, now contains a subsection on exponential equations; Section 4.4, Logarithmic Functions, now contains a subsection on logarithmic equations. • The discussion on Right Triangle Trigonometry, formerly Section 5.4, has been relocated to Chapter 7, Applications of Trigonometry. This change makes the material of Chapter 5 more consistent in level of difficulty. For those who wish to cover this material earlier, this section can be covered anytime after Section 5.3. • Graphs of the Trigonometric Functions and Sinusoidal Graphs; Sinusoidal Curve Fitting, formerly Sections 5.5 and 5.6, now is covered in three sees dons, 5.4, 5.5, and 5.6. This change makes it possible to teach the section in one period each. • The Inverse Trigonometric Functions, formerly Section 6.5, now is covered in two sections at the beginning of the chapter. This change makes it possible to teach the sections in one period each. It also places the content closer to the discussion of the trigonometric functions and their graphs. Features in the 3rd Edition Section OBJECTIVES appear in a numbered list to begin each section. NOW WORK PROBLEM XX. appears after a concept has been introduced. This directs the student to a problem in the exercises that tests the concept, insuring that the concept has been mastered before moving on. The Now Work problems are identified in the exercises using orange, numbers and a pencil icon. References to Calculus are identified by a calculus icon. Discussion, Writing, and Research problems appear in most exercise; sets, identified by an icon and red numbers. These problems provide a basis for class discussion, writing projects, and library projects. Historical Perspectives, sometimes with exercises, are presented in context„ and provide interesting anecdotal information. Varied applications and real-world, sourced data are abundant in Examples and Exercises. Concepts and Vocabulary, a short list of Fill-in-the-Blank, True/False, and open-ended questions that test concepts and vocabulary in a quick-answer format, are given at the end of every section. An extensive Chapter Review provides a list of important formulas and key definitions and theorems. The objectives of the chapter are listed by section, with page references and review exercises that relate to the objective. The authors' suggestions for a practice test are indicated by a blue number in the review exercise set. Chapter Projects that are relevant and current, many based on newspaper articles, appear at the end of each chapter. These can serve as

the basis for collaborative learning experiences. Cumulative Reviews appear at the end of Chapters 2-12. These problem sets serve to continually reinforce skills from earlier chapters. Using the 3rd Edition Effectively and Efficiently with Your Syllabus To meet the varied needs of diverse syllabi, this book contains more content than expected in a precalculus course. The illustration shows the dependencies of chapters on each other. As the chart indicates, this book has been organized with flexibility of use in mind. Even within a given chapter, certain sections are optional and can be skipped without fear of future problems. Chapter 1. Graphs This chapter is a briefer version of the former Chapter 1. A quick coverage of this chapter, which is mainly review material, will enable you to get to Chapter 2 Functions and their Graphs earlier. Chapter 2. Functions and Their Graphs Perhaps the most important chapter. Section 2.7 is optional. Chapter 3. Polynomial and Rational Functions Topic selection is dependent on your syllabus. Chapter 4. Exponential and Logarithmic Functions Sections 4.1-4.5 follow in sequence. Sections 4.6, 4.7, and 4.8 are optional; each of these requires Section 4.3. Chapter 5. Trigonometric Functions The sections follow in sequence. Section 5.6 is optional. Chapter 6. Analytic Trigonometry The sections follow in sequence. Sections 6.2, 6.6, and 6.8 may be skipped in a brief course. Chapter 7. Applications of Trigonometry The sections follow in sequence. Sections 7.4 and 7.5 are optional. Chapter 8. Polar Coordinates; Vectors Sections 8.1-8.3 and Sections 8.4-8.7 are independent and may be covered separately. Chapter 9. Analytic Geometry Sections 9.1-9.4 follow in sequence. Sections 9.5,9.6, and 9.7 are independent of each other, but do depend on sections 9.1-9.4. Chapter 10. Systems of Equations and Inequalities Sections 10.1-10.2 follow in sequence; Sections 10.3-10.8 require Sections 10.1-10.2, but may be covered in any order. Section 10.7 also requires Sections 9.1-9.4. Section 10.9 requires Section 10.8. Chapter 11. Sequences; Induction; The Binomial Theorem There are three independent parts: Sections 11.1-11.3; Section 11.4; and Section 11.5. Chapter 12. Counting and Probability Sections 12.1-12.3 follow in sequence; Section 12.4 is optional. Chapter 13. A Preview of Calculus: the Limit, Derivative, and Integral of a Function If time permits, coverage of this chapter will give your students a beneficial head-start in calculus. The sections follow in sequence. Appendix Review Sections A.1-A.6 and Section A.9 consist of review material, which can be used as the first part of a course in Precalculus or as a just-in-time review. Specific references to this material occur throughout the text to assist in the review process. Coverage of Sections A.7 and A.8 depends on your syllabus.

This book is a great book. I am able to figure out most of the exercises from the the given examples and explanations, but some answers won’t make any sense if the student hasn’t been given

previous experience, as lets say the distance from the origin is 3 radical 3; which confused me at first, but for college freshmen is a little rough, especially in an early chapter.Other then what I just described, the book is an amazing math text book. On the other hand, with all the changes and requirements in to days schools, the text book may probably be right on track.With all the revised certification requirements for universities, most universities may now be requiring freshmen take supplementary algebra courses before attending university classes, which can be done at a junior college; which many universities parallel with a junior college anyway.Beings the Precalculus (10th Edition) by Michael Sullivan, is such a good book, I am not sure I want to return it. I may need this book for three semesters, and depending how long ETSU wants to use this book, it may be cost effective for me to purchase it.I may have gotten a little off track with this evaluation, but with the right text book what I said all folds together, which what is happening with this text book.

I usually hate math textbooks but this is one of the better ones out there. It’s designed in such a way as to be helpful at all levels. A section is always introduced with a prereq quiz so you know what prereqs are making the new concept difficult for you. It even points to an appendix with help on the material in question. This feature is really amazing because a difficult topic becomes easy once you know what your roadblocks are. It provides clear introductions to new concepts and then points you to a similar problem you can try out right after each objective is explained (the hands-on approach). What’s amazing is that it’s still a rigorous and sometimes challenging book while being very accessible for most. The problems range from the easy "check your understanding" type to more challenging mastery problems. I found this book to be more rigorous than the other precalc text I had to buy for a trig class. Somehow, it still managed to be understandable too.

This book is pretty good. It only has one problem: there are no exercise problems in the book!It comes with mymathlab which means that the problems for each chapter, whic are a few, are accessed online and the only way you can access the online information is if your professor created an account with the website. My professor did not, so guess what? No problems for me to work with and in math it’s crucial to practice, practice, practice, if you want the material to stick.Anyways, all I can do with this book is learn from the examples and then I go to my shool library, check out the full textbook from there, and make copies of the exercise problems so I may work on them.If your professor is not going to create an account with the book’s website it is better if you buy the original textbook, with no mymathlab!

I've actually used this book many years earlier when I was taking the precalculus course and found the book quite helpful because the numerous intro-chapter examples were understandable and practical to follow. I'm using it now as a refresher. The only problem I've encountered is finding the correct solutions manual. If anyone can assist along those lines, I'd certainly appreciate it.

As described.

This book is still written like most math books in that if you want things in laymen terms, you are out of luck. Although some of the examples help, you will still end up on Youtube looking for most of your math help.

Thank you for such a pleasant transaction!

Great book, need info on return. Greatly helped daughter with her college course. Will be looking for more rentals from company.

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