

KEY AP Precalculus – Mixed Six – Polynomial Functions Topics 1.4 to 1.6
Rates of Change, Complex Zeros, and End Behavior

 **Some Calculator**

1. Factual Recall For the polynomial function $p(x) = 5x^4 - 9x^3 + 3x^2 - 9x - 2$, Identify the following. a) the degree of the polynomial 4 b) the leading coefficient 5 c) the constant term -2 d) a zero of the polynomial function p if $(x - 2)$ is a linear factor of p 2 EK: 1.4.A.1, 1.5.A.1	2. Carry out a Procedure For the polynomial function $g(x) = (x + 3)^2(x + 1)^2(x - 4)^2$, a) find the zeros and their corresponding multiplicities. <table><tr><th>Zero</th><th>Multiplicity</th></tr><tr><td>-3</td><td>Three</td></tr><tr><td>-1</td><td>Two</td></tr><tr><td>4</td><td>Four</td></tr></table> b) At which of these zeros is the graph of the polynomial tangent to the x-axis? At $x = -1$ and $x = 4$ because of the even multiplicity. See page 2. EK: 1.5.A.2 & 1.5.A.3	Zero	Multiplicity	-3	Three	-1	Two	4	Four	3. Classify a Mathematical Object Classify as Even (E), Odd (O), or Neither (N) <table><tr><th></th><th>E/O/N</th><th>Polynomial Function</th></tr><tr><td>1.</td><td>E</td><td>$p_1(x) = 5x^4 + 3x^2 - 4$</td></tr><tr><td>2.</td><td>N</td><td>$p_2(x) = 5x^4 + 3x^2 + 2x$</td></tr><tr><td>3.</td><td>O</td><td>$p_3(x) = 6x^3 + 2x$</td></tr><tr><td>4.</td><td>E</td><td></td></tr><tr><td>5.</td><td>O</td><td></td></tr></table> EK: 1.5.B.1 & 1.5.B.2		E/O/N	Polynomial Function	1.	E	$p_1(x) = 5x^4 + 3x^2 - 4$	2.	N	$p_2(x) = 5x^4 + 3x^2 + 2x$	3.	O	$p_3(x) = 6x^3 + 2x$	4.	E		5.	O	
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4.	E																											
5.	O																											
4. Prove, Show, Justify For each of the polynomial functions, write appropriate limits to describe the end behavior. Give reasons for your answers. a) $f(x) = 5x^4 + 3x^2 - 4$ <table><tr><th>End Behavior Limits</th><th>Reason</th></tr><tr><td>$\lim_{x \rightarrow \infty} p(x) = \infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$</td><td>$p$ has an even degree and a positive leading coefficient.</td></tr></table> b) $h(x) = -6x^3 + 2x - 4$ <table><tr><th>End Behavior Limits</th><th>Reason</th></tr><tr><td>$\lim_{x \rightarrow \infty} p(x) = -\infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$</td><td>$p$ has an odd degree and a negative leading coefficient.</td></tr></table> EK: 1.6.A.1 & 1.6.A.1	End Behavior Limits	Reason	$\lim_{x \rightarrow \infty} p(x) = \infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$	p has an even degree and a positive leading coefficient.	End Behavior Limits	Reason	$\lim_{x \rightarrow \infty} p(x) = -\infty$ $\lim_{x \rightarrow -\infty} p(x) = \infty$	p has an odd degree and a negative leading coefficient.	5. Extend a Concept  The figure shows is the graph of a polynomial function m. a) Write an expression for m in factored form using a as the leading coefficient. $m(x) = a(x + 2)^2(x - 0)(x - 3)$  b) Which value of a in the list below displays a polynomial that best matches the given graph of m? <table><tr><th>Possible a-values</th><td>0.3</td><td>0.2</td><td>-0.2</td><td>-0.3</td></tr><tr><td>$a = -0.2$</td><td></td><td></td><td></td><td></td></tr></table> EK: 1.4.A.4 & 1.5.A.2	Possible a -values	0.3	0.2	-0.2	-0.3	$a = -0.2$					6. Critique a Fallacy  Sophie attempts to find the zeros of the polynomial function $q(x) = x^4 - 2x^2 - 3x - 2$. Sophie graphs the function on her calculator and states that the function has exactly two complex zeros. Explain what is wrong with Sophie's statement. Write a correct statement about the complex zeros. Since the degree of the polynomial function is 4, the function has exactly 4 complex zeros. The graph of function q shows two x-intercepts which indicates that q has two real zeros and two non-real zeros. The real zeros are $x = -1$ and $x = 2$. See page 2. EK: 1.5.A.2 & 1.5.A.4								
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Odysseyware Key Precalculus

**J. S. Ratti, Marcus McWaters, Leslaw
Skrzypek, Jessica Bernards, Wendy
Fresh**

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Precalculus Michael J. Sullivan, 2015-01-13 *Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry Third Edition* focuses on the fundamentals preparation for class practice with homework and reviewing of key concepts With the Concepts Through Functions series the Sullivans expose students to functions in the first chapter and maintain a continuous theme of functions throughout the text This approach ensures students master basic skills and develop the conceptual understanding they need for the course ultimately preparing students for future math courses as well This program will provide a better teaching and learning experience for you and your students Here s how Improve Results MyMathLab R delivers proven results in helping students succeed and provides engaging experiences that personalize learning Help students prepare for class with just in time review for topics ahead Reinforce key concepts with practicing skills exercises that allow students to practice immediately after learning a new skill Review for exams and quizzes with comprehensive practice problems matched to learning objectives for each section *Precalculus* Michael Sullivan, 2015 *Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry Third Edition* focuses on the fundamentals preparation for class practice with homework and reviewing of key concepts With the Concepts Through Functions series the Sullivans expose students to functions in the first chapter and maintain a continuous theme of functions throughout the text This approach ensures students master basic skills and develop the conceptual understanding they need for the course ultimately preparing students for future math courses as well This program will provide a better teaching and learning experience for you and your students Here s how Improve Results MyMathLab R delivers proven results in helping students succeed and provides engaging experiences that personalize learning Help students prepare for class with just in time review for topics ahead Reinforce key concepts with practicing skills exercises that allow students to practice immediately after learning a new skill Review for exams and quizzes with comprehensive practice problems matched to learning objectives for each section Note You are purchasing a standalone product MyMathLab does not come packaged with this content MyMathLab is not a self paced technology and should only be purchased when required by an instructor If you would like to purchase both the physical text and MyMathLab search for 032192603X 9780321926036 *Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry Plus NEW MyMathLab with Pearson eText Access Card Package* Package consists of 0321431308 9780321431301 MyMathLab Glue in Access Card 0321654064 9780321654069 MyMathLab Inside Star Sticker 0321931041 9780321931047 *Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry*

Precalculus Test Key Units 1-10 (RES) Responsive Education Solutions Staff, 2010-08-01 Key Individual Test Key for *Precalculus Units 1 10* **Precalculus with Calculus Previews** Dennis G. Zill, Jacqueline M. Dewar, 2015-11-03 Building off the success of Zill and Dewar s popular Essentials version the new Sixth Edition of *Precalculus with Calculus Previews* continues to include all of the outstanding features and learning tools found in the original text while incorporating additional

topics of coverage that some courses may require With a continued effort to keep the text complete yet concise the authors have included four additional chapters making the text a clear choice for many mainstream courses Additional chapters include a new chapter on Polar Coordinates as well as Triangle Trigonometry Systems of Equations and Inequalities and Sequences and Series

Precalculus with Calculus Previews: Expanded Volume Dennis G. Zill, Jacqueline M. Dewar, 2009-01-03

Precalculus with Trigonometry Paul A. Foerster, 2003

Precalculus J. S. Ratti, Marcus McWaters, Leslaw Skrzypek, Jessica Bernards, Wendy Fresh, 2023-03-26

For courses in Precalculus Solid preparation for calculus with an engaging friendly approach Precalculus A Unit Circle Approach draws from the authors extensive classroom experience to build conceptual understanding and skills so that students are ready for calculus In the 4th Edition new resources help students reach their full potential including author created instructional videos note taking guides and study skills resources plus built in support for corequisite courses Nationally recognized instructors Jessica Bernards and Wendy Fresh join the author team in this revision helping students master challenging concepts by making them as accessible as possible

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Precalculus with Trigonometry Deborah Davies (Mathematics teacher), Paul A. Foerster, Judy Stringham, 2003

Precalculus Michael Sullivan, 2014-01-10

Precalculus Concepts Through Functions A Unit Circle Approach to Trigonometry Third Edition focuses on the fundamentals preparation for class practice with homework and reviewing of key concepts With the Concepts Through Functions series the Sullivans expose students to functions in the first chapter and maintain a continuous theme of functions throughout the text This approach ensures students master basic skills and develop the conceptual understanding they need for the course ultimately preparing students for future math courses as well

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Precalculus, Student Solutions Manual Cynthia Y. Young, 2010-02-15

Engineers looking for an accessible approach to calculus will appreciate Young's introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems

Precalculus with Trigonometry: Assessment resources Paul A. Foerster, 2007

Precalculus Robert Blitzer, 2010

CliffsQuickReview Precalculus W. Michael Kelley, 2004-03-12 CliffsQuickReview course guides cover the essentials of your toughest classes You're sure to get a firm grip on core concepts and key material and be ready for the test with this guide at your side Whether you're new to functions analytic geometry and matrices or just brushing up on those topics CliffsQuickReview Precalculus can help This guide introduces each topic defines key terms and walks you through each sample problem step by step In no time you'll be ready to tackle other concepts in this book such as Arithmetic and algebraic skills Functions and their graphs Polynomials including binomial expansion Right and oblique angle trigonometry Equations and graphs of conic sections Matrices and their application to systems of equations CliffsQuickReview Precalculus acts as a supplement to your textbook and to classroom lectures Use this reference in any way that fits your personal style for study and review you decide what works best with your needs You can either read the book from cover to cover or just look for the information you want and put it back on the shelf for later What's more you can Use the free Pocket Guide full of essential information Get a glimpse of what you'll gain from a chapter by reading through the Chapter Check In at the beginning of each chapter Use the Chapter Checkout at the end of each chapter to gauge your grasp of the important information you need to know Test your knowledge more completely in the CQR Review and look for additional sources of information in the CQR Resource Center Use the glossary to find key terms fast With titles available for all the most popular high school and college courses CliffsQuickReview guides are a comprehensive resource that can help you get the best possible grades

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Essentials of Precalculus with Calculus Previews Dennis G. Zill, Jacqueline M. Dewar, 2014-12 Essentials of Precalculus with Calculus Previews Sixth Edition is an ideal undergraduate text to help students successfully transition into a future course in calculus The Sixth Edition of this best selling text presents the fundamental mathematics used in a typical calculus sequence in a focused and readable format Dennis G Zill's concise yet eloquent writing style allows instructors to cover the entire text in one semester Essentials of Precalculus with Calculus Previews Sixth Edition uses a vibrant full color design to illuminate key concepts and improves students comprehension of graphs and figures This text also includes a

valuable collection of student and instructor resources making it a complete teaching and learning package Key Updates to the Sixth Edition New section on implicitly defined functions in Chapter 2 New section on the Product to Sum and Sum to Product trigonometric identities in Chapter 4 Expanded discussion of applications of right triangles including the addition of new problems designed to pique student interest The discussion of the Laws of Sines and the Law of Cosines are now separated into two sections to facilitate and increase student comprehension Increased emphasis on solving equations involving exponential and logarithmic functions Updated and expanded WebAssign Online Homework and Grading System with comprehensive questions that facilitate learning Provides a complete teaching and learning program with numerous student and instructor resources including a Student Resource Manual WebAssign Complete Instructor Solutions Manual and Image Bank

Pre-Calculus Demystified Rhonda Huettenmueller, 2005-02-04 Pre Calculus Demystified leads the reader through all the intricacies and requirements of this essential course Whether you need to pass a class a college requirement or get a leg up on more advanced topics this book provides clear explanation with a wealth of questions answers and practical examples Packed with practical examples graphs and Q As this complete self teaching guide from the best selling author of Algebra Demystified covers all the essential topics including absolute value nonlinear inequalities functions and their graphs inverses proportion and ratio and much more

Precalculus Judith A. Beecher, Judith A. Penna, Marvin L. Bittinger, 2012 Beecher Penna and Bittinger's Precalculus A Right Triangle Approach is known for enabling students to see the math through its focus on visualization and early introduction to functions With the Fourth Edition the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively Mid chapter Review exercise sets have been added to give students practice in synthesizing the concepts and new Study Summaries provide built in tools to help them prepare for tests The MyMathLab course access kit required has been expanded so that the online content is even more integrated with the text's approach with the addition of Vocabulary Synthesis and Mid chapter Review exercises from the text as well as example based videos created by the authors

Precalculus Franklin D. Demana, Bert K. Waits, Gregory D. Foley, Daniel Kennedy, 2011 In Precalculus the authors encourage graphical numerical and algebraic modeling of functions as well as a focus on problem solving conceptual understanding and facility with technology They have created a book that is designed for instructors and written for students making this the most effective precalculus text available today Contents P Prerequisites 1 Functions and Graphs 2 Polynomial Power and Rational Functions 3 Exponential Logistic and Logarithmic Functions 4 Trigonometric Functions 5 Analytic Trigonometry 6 Applications of Trigonometry 7 Systems and Matrices 8 Analytic Geometry in Two and Three Dimensions 9 Discrete Mathematics 10 An Introduction to Calculus Limits Derivatives and Integrals Appendix A Algebra Review Appendix B Key Formulas Appendix C Logic

Precalculus James Stewart, Lothar Redlin, Saleem Watson, 1999-11-01

Odysseyware Key Precalculus Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Odysseyware Key Precalculus**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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