

3.10 Trigonometric Equations and Inequalities

3.10 Practice

AP Precalculus

Solve each equation for $0 \leq x \leq 2\pi$. Find the exact value(s) using the unit circle.

1. $2 \sin x + 3 = 4$

$$2 \sin x + 3 = 4$$

$$2 \sin x = 1$$

$$\sin x = 1/2$$

$$x = \pi/6, 5\pi/6$$

2. $4 - 3 \cos x = 7$

$$4 - 3 \cos x = 7$$

$$-3 \cos x = 3$$

$$\cos x = -1$$

$$x = \pi$$

3. $\tan^2 x = 1$

$$\tan^2 x = 1$$

$$\tan x = \pm 1$$

$$x = \pi/4, 5\pi/4, 3\pi/4, 7\pi/4$$

4. $-1 = \cos^2 x + 2 \cos x$

$$\cos^2 x + 1 = 0$$

$$(\cos x + 1)^2 = 0$$

$$\cos x = -1$$

$$x = \pi$$

Solve each equation for $0 \leq \theta \leq 2\pi$. Find the approximate value(s) using a calculator.

5. $6 = 3 \cos \theta + 7$

$$6 = 3 \cos \theta + 7$$

$$3 \cos \theta = -1$$

$$\cos \theta = -1/3$$

$$1.911 \text{ rad}$$

and

$$4.372 \text{ rad}$$

6. $5 \sin^2 \theta + 3 = 6$

$$5 \sin^2 \theta + 3 = 6$$

$$5 \sin^2 \theta = 3$$

$$\sin^2 \theta = 3/5$$

$$\sin \theta = \pm \sqrt{3/5}$$

$$0.900 \text{ rad},$$

$$2.241 \text{ rad},$$

$$3.383 \text{ rad},$$

$$5.524 \text{ rad}$$

7. $6 \cos^2 \theta + 4 \cos \theta = 0$

$$2 \cos \theta (3 \cos \theta + 2) = 0$$

$$\cos \theta = 0$$

$$\cos \theta = -2/3$$

$$\cos \theta = -1/3$$

$$2.300 \text{ rad}$$

$$3.983 \text{ rad}$$

8. $\cos \theta = 3 \cos^2 \theta$

$$3 \cos^2 \theta - \cos \theta = 0$$

$$\cos \theta (3 \cos \theta - 1) = 0$$

$$\cos \theta = 0 \text{ or } \cos \theta = 1/3$$

$$\cos \theta = 1/3$$

$$1.231 \text{ rad}$$

$$5.051 \text{ rad}$$

Precalculus With Trigonometry Answers

Jicheng Xie



Precalculus With Trigonometry Answers:

Precalculus with Trigonometry Paul A. Foerster, 2003 Precalculus with Trigonometry Concepts and Applications

Student Solutions Manual for Precalculus With Early Trigonometry Marion Berger, 2017-06-17 This manual contains the solutions to all of the odd numbered Exercises and to all including even numbered Cumulative Review Exercises in the textbook *Precalculus with Early Trigonometry* 3rd ed by G Viglino and M Berger *Student Solutions Manual for Precalculus with Early Trigonometry, 2ed* M. Berger, 2012-11-01 This manual contains the solutions to all of the odd numbered traditional Exercises and to all including even numbered Cumulative Review Exercises and final Review Problems in the textbook *PRECALCULUS WITH EARLY TRIGONOMETRY* 2ed by G Viglino and M Berger Also included in this manual are the solutions of many odd numbered exercises that stretch one's understanding of the material *Student Solutions Manual for Precalculus* Michael Sullivan, 2014-03-28 Normal 0 false false false This manual contains completely worked out solutions for all the odd numbered exercises in the text *Instructor's Solutions Manual for Algebra and Trigonometry/Precalculus* Judith A. Beecher, Judith A. Penna, Marvin L. Bittinger, 2011-03-11 This manual contains detailed worked out solutions to all exercises in the text **College Algebra and Trigonometry** Franklin D. Demana, 1993-03

Precalculus David Cohen, 2005-05 Provides detailed and complete solutions to the odd numbered exercises and test questions *Core 40 Questions and Answers*, 1995 Answer book to accompany precalculus mathematics Steven Jerome. Precalculus mathematics: algebra and trigonometry. Answer book Bryant, Daniel Saltz, 1980 **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** Franklin D. Demana, Bert K. Waits, Stanley R. Clemens, 1993 **Student Solutions Manual for Precalculus** Michael Sullivan, Tim Britt, 2011 This Manual provides fully worked solutions to odd numbered exercises It is also available within MyMathLab *Student Solutions Manual - Precalculus* Michael Sullivan, 2008-11 *El-Hi Textbooks and Serials in Print*, 2006 **Precalculus** Mustafa A. Munem, James P. Yizze, 2002-10-07 **Programmed Learning and Individually Paced Instruction** Carl H. Hendershot, 1973 **Precalculus: Concepts Through Functions: A Right Triangle Approach to Trigonometry: Student Solutions Manual** Michael Sullivan, 2008-11-01 **Historical Modules for the Teaching and Learning of Mathematics** Victor J. Katz, Karen Dee Michalowiz, 2020-03-02 Contains 11 modules consist of a number of activities designed to demonstrate the use of the history of mathematics in the teaching of mathematics Objectives of the Modules To enable students to develop a much richer understanding of mathematics and its

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