



Answer the following questions, using either pencil or computer. Show your work. Write your answers in the space provided.

For questions 1–3, the complex number(s) are given in polar form. Find the rectangular representation of each point. (2 points each)

1.  $(\sqrt{2}, \frac{\pi}{4})$

radius =  $\sqrt{2}$   
 angle =  $\frac{\pi}{4}$

radius =  $\sqrt{2}$   
 angle =  $\frac{\pi}{4}$

radius =  $\sqrt{2}$   
 angle =  $\frac{\pi}{4}$

$x = \sqrt{2} \cos(\frac{\pi}{4}) = 1$

$y = \sqrt{2} \sin(\frac{\pi}{4}) = 1$

$z = \sqrt{2} e^{i\frac{\pi}{4}}$

$z = \cos(\frac{\pi}{4}) + i \sin(\frac{\pi}{4})$

$z = \cos(\frac{\pi}{4}) + i \sin(\frac{\pi}{4})$

$z = 1 + i$

2.  $(2, \frac{\pi}{3})$

radius = 2  
 angle =  $\frac{\pi}{3}$

radius = 2  
 angle =  $\frac{\pi}{3}$

radius = 2  
 angle =  $\frac{\pi}{3}$

$x = 2 \cos(\frac{\pi}{3}) = 1$

$y = 2 \sin(\frac{\pi}{3}) = \sqrt{3}$

$z = 1 + i\sqrt{3}$

3.  $(\sqrt{2}, \frac{3\pi}{4})$

radius =  $\sqrt{2}$   
 angle =  $\frac{3\pi}{4}$

radius =  $\sqrt{2}$   
 angle =  $\frac{3\pi}{4}$

$z = -1 + i$

$x = \sqrt{2} \cos(\frac{3\pi}{4}) = -1$

$y = \sqrt{2} \sin(\frac{3\pi}{4}) = 1$

$z = \sqrt{2} \cos(\frac{3\pi}{4}) + i \sqrt{2} \sin(\frac{3\pi}{4})$

$z = -1 + i$

For questions 4–6, the rectangular representation is given. Find the polar

# Precalculus Sem 2 Apex

**Christian G. Meyer**



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## **Table of Contents Precalculus Sem 2 Apex**

1. Understanding the eBook Precalculus Sem 2 Apex
  - The Rise of Digital Reading Precalculus Sem 2 Apex
  - Advantages of eBooks Over Traditional Books
2. Identifying Precalculus Sem 2 Apex
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Precalculus Sem 2 Apex
  - User-Friendly Interface
4. Exploring eBook Recommendations from Precalculus Sem 2 Apex
  - Personalized Recommendations

- Precalculus Sem 2 Apex User Reviews and Ratings
- Precalculus Sem 2 Apex and Bestseller Lists
- 5. Accessing Precalculus Sem 2 Apex Free and Paid eBooks
  - Precalculus Sem 2 Apex Public Domain eBooks
  - Precalculus Sem 2 Apex eBook Subscription Services
  - Precalculus Sem 2 Apex Budget-Friendly Options
- 6. Navigating Precalculus Sem 2 Apex eBook Formats
  - ePub, PDF, MOBI, and More
  - Precalculus Sem 2 Apex Compatibility with Devices
  - Precalculus Sem 2 Apex Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Precalculus Sem 2 Apex
  - Highlighting and Note-Taking Precalculus Sem 2 Apex
  - Interactive Elements Precalculus Sem 2 Apex
- 8. Staying Engaged with Precalculus Sem 2 Apex
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Precalculus Sem 2 Apex
- 9. Balancing eBooks and Physical Books Precalculus Sem 2 Apex
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Precalculus Sem 2 Apex
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Precalculus Sem 2 Apex
  - Setting Reading Goals Precalculus Sem 2 Apex
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Precalculus Sem 2 Apex
  - Fact-Checking eBook Content of Precalculus Sem 2 Apex

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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