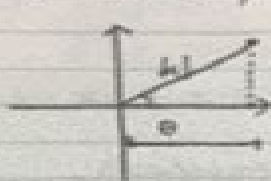


## Lecture 12

## Cartesian Form



## Polar Form



## polar form

$$z = |z| (\cos \theta + i \sin \theta)$$

$$|z| = \sqrt{a^2 + b^2}$$

$$\text{Let } z_1 = r_1 (\cos(\theta_1) + i \sin(\theta_1))$$

$$z_2 = r_2 (\cos(\theta_2) + i \sin(\theta_2))$$

$$z_1 z_2 = r_1 r_2 (\cos(\theta_1 + \theta_2) + i \sin(\theta_1 + \theta_2))$$

$$\frac{z_1}{z_2} = \frac{r_1}{r_2} (\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2))$$

These formulae lead to De Moivre's Theorem

$$\text{Let } z = r (\cos(\theta) + i \sin(\theta))$$

$$\text{Then } z^n = r^n (\cos(n\theta) + i \sin(n\theta))$$

(Or works for all integers  $n$ )

This is used to calculate power of complex number and roots of complex number.

**EX** Find  $(1 + \sqrt{3}i)^8$ , writing it in Cartesian form ( $a + ib$ )

• Use De Moivre's Theorem

Find First: Rewrite in polar form.

$$1 + \sqrt{3}i = 2 (\cos \frac{\pi}{3} + i \sin \frac{\pi}{3})$$

$$r = \sqrt{1^2 + (\sqrt{3})^2} = \sqrt{4} = 2$$

Apply Theorem:

$$(1 + \sqrt{3}i)^8 = [2 (\cos(\frac{\pi}{3}) + i \sin(\frac{\pi}{3}))]^8 = 2^8 (\cos(\frac{8\pi}{3}) + i \sin(\frac{8\pi}{3}))$$

$$= 2^8 (\cos(\frac{-2\pi}{3}) + i \sin(\frac{-2\pi}{3})) = 128 + 128\sqrt{3}i$$

**EX** Find the 6th root of negative 64 =

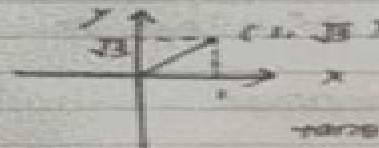
$$64 (\cos(\pi) + i \sin(\pi))$$

$$\text{Let } z \text{ be } r (\cos \theta + i \sin \theta)$$

And assume that  $z$  is a 6th root of  $-64$

$$\therefore z^6 = -64$$

In polar form:



$$\tan \theta = \frac{\sqrt{3}}{1} \Rightarrow \theta = \frac{\pi}{3}$$



# Math 20b Supplement Answers

**SA Adler**



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## **Table of Contents Math 20b Supplement Answers**

1. Understanding the eBook Math 20b Supplement Answers
  - The Rise of Digital Reading Math 20b Supplement Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Math 20b Supplement Answers
  - 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 Math 20b Supplement Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math 20b Supplement Answers
  - Personalized Recommendations
  - Math 20b Supplement Answers User Reviews and Ratings
  - Math 20b Supplement Answers and Bestseller Lists
5. Accessing Math 20b Supplement Answers Free and Paid eBooks

- Math 20b Supplement Answers Public Domain eBooks
- Math 20b Supplement Answers eBook Subscription Services
- Math 20b Supplement Answers Budget-Friendly Options
- 6. Navigating Math 20b Supplement Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Math 20b Supplement Answers Compatibility with Devices
  - Math 20b Supplement Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math 20b Supplement Answers
  - Highlighting and Note-Taking Math 20b Supplement Answers
  - Interactive Elements Math 20b Supplement Answers
- 8. Staying Engaged with Math 20b Supplement Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math 20b Supplement Answers
- 9. Balancing eBooks and Physical Books Math 20b Supplement Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math 20b Supplement Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Math 20b Supplement Answers
  - Setting Reading Goals Math 20b Supplement Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math 20b Supplement Answers
  - Fact-Checking eBook Content of Math 20b Supplement Answers
  - 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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