

Question 9

a) $w \in \mathbb{C}, \operatorname{Re} w > 0$

$\downarrow$
 $w = a + bi \quad \downarrow \quad a > 0; a, b \in \mathbb{R}$

$$w + 3w^* = iw^2$$

$$a + bi + 3(a - bi) = i(a + bi)^2$$

$$a + bi + 3a - 3bi = i(a^2 - b^2 + 2abi)$$

$$4a - 2bi = a^2 i - b^2 i - 2ab$$

$$\operatorname{Re}: \quad 4a = -2ab \rightarrow -2 = b$$

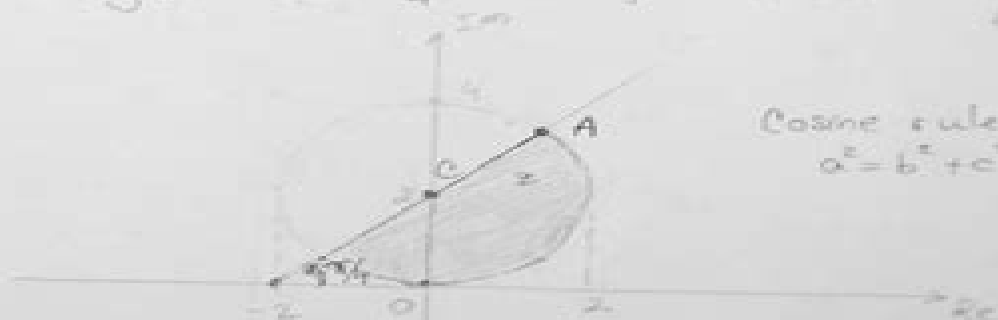
$$\operatorname{Im}: \quad -2b = a^2 - b^2$$

$$4 = a^2 - 4 \rightarrow a^2 = 8 \rightarrow a = \pm\sqrt{8} \quad \left| \begin{array}{l} a > 0 \\ a = 2\sqrt{2} \end{array} \right.$$

$$\boxed{w = 2\sqrt{2} - 2i}$$

b) $|z - 2i| \leq 2 \rightarrow$ circle radius 2, centre $(0, 2)$

$0 \leq \arg(z + 2) \leq \frac{1}{4}\pi \rightarrow$ from $(-2, 0)$ ~~the~~ region between 0 and $\frac{\pi}{4}$



Cosine rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$|z|$ greatest value $\rightarrow |z| = OA$

$$\hat{OCA} = \pi - \frac{\pi}{4} = \frac{3\pi}{4}$$

$$OA^2 = 2^2 + 2^2 - 2 \cdot 2 \cdot 2 \cos \frac{3\pi}{4}$$

$$OA = \sqrt{8 - 8 \cos \frac{3\pi}{4}} = 3.70 \rightarrow \boxed{|z| = 3.70}$$

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Table of Contents June 2013 Maths Question Paper 1 9709

1. Understanding the eBook June 2013 Maths Question Paper 1 9709
 - The Rise of Digital Reading June 2013 Maths Question Paper 1 9709
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Maths Question Paper 1 9709
 - 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 June 2013 Maths Question Paper 1 9709
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Maths Question Paper 1 9709

- Personalized Recommendations
 - June 2013 Maths Question Paper 1 9709 User Reviews and Ratings
 - June 2013 Maths Question Paper 1 9709 and Bestseller Lists
5. Accessing June 2013 Maths Question Paper 1 9709 Free and Paid eBooks
 - June 2013 Maths Question Paper 1 9709 Public Domain eBooks
 - June 2013 Maths Question Paper 1 9709 eBook Subscription Services
 - June 2013 Maths Question Paper 1 9709 Budget-Friendly Options
 6. Navigating June 2013 Maths Question Paper 1 9709 eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 Maths Question Paper 1 9709 Compatibility with Devices
 - June 2013 Maths Question Paper 1 9709 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Maths Question Paper 1 9709
 - Highlighting and Note-Taking June 2013 Maths Question Paper 1 9709
 - Interactive Elements June 2013 Maths Question Paper 1 9709
 8. Staying Engaged with June 2013 Maths Question Paper 1 9709
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 Maths Question Paper 1 9709
 9. Balancing eBooks and Physical Books June 2013 Maths Question Paper 1 9709
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Maths Question Paper 1 9709
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine June 2013 Maths Question Paper 1 9709
 - Setting Reading Goals June 2013 Maths Question Paper 1 9709
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of June 2013 Maths Question Paper 1 9709

- Fact-Checking eBook Content of June 2013 Maths Question Paper 1 9709
- 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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