

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 $\frac{\pi}{4}$



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

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

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

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

June 2013 Maths Question Paper 1 9709

Lingjun Ying

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

June 2013 Maths Question Paper 1 9709:

The book delves into June 2013 Maths Question Paper 1 9709. June 2013 Maths Question Paper 1 9709 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2013 Maths Question Paper 1 9709, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to June 2013 Maths Question Paper 1 9709
 - Chapter 2: Essential Elements of June 2013 Maths Question Paper 1 9709
 - Chapter 3: June 2013 Maths Question Paper 1 9709 in Everyday Life
 - Chapter 4: June 2013 Maths Question Paper 1 9709 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of June 2013 Maths Question Paper 1 9709. The first chapter will explore what June 2013 Maths Question Paper 1 9709 is, why June 2013 Maths Question Paper 1 9709 is vital, and how to effectively learn about June 2013 Maths Question Paper 1 9709.
3. In chapter 2, this book will delve into the foundational concepts of June 2013 Maths Question Paper 1 9709. This chapter will elucidate the essential principles that must be understood to grasp June 2013 Maths Question Paper 1 9709 in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of June 2013 Maths Question Paper 1 9709 in specific contexts. This chapter will explore how June 2013 Maths Question Paper 1 9709 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about June 2013 Maths Question Paper 1 9709. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of June 2013 Maths Question Paper 1 9709.

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