

### Question 9

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

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

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

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

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

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

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

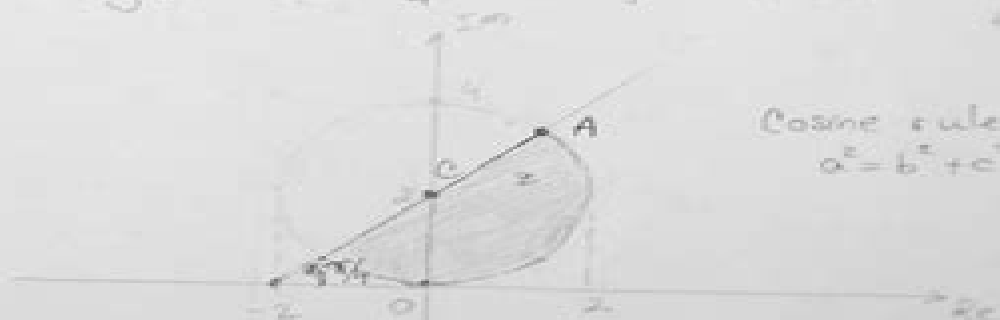
$$\operatorname{Im}: -2b = a^2 - b^2$$

$$4 = a^2 - 4 \rightarrow a^2 = 8 \rightarrow a = \pm\sqrt{8} \quad a > 0 \mid a = 2\sqrt{2}$$

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

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  $\rightarrow |z| = OA$

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

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

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

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