

Subject – Math(Higher Level)  
Topic - Algebra  
Year - Nov 2011 – Nov 2019  
Paper 2

Question 1

**METHOD 1**

$$\arg(z_1 z_2) = \frac{5\pi}{6} \quad (150^\circ) \quad (M1)$$

$$\arg\left(\frac{z_1}{z_2}\right) = \frac{\pi}{2} \quad (90^\circ) \quad (M1)$$

$$\Rightarrow \arg(z_1) + \arg(z_2) = \frac{5\pi}{6}; \arg(z_1) - \arg(z_2) = \frac{\pi}{2} \quad (M1)$$

solving simultaneously

$$\arg(z_1) = \frac{2\pi}{3} \quad (120^\circ) \text{ and } \arg(z_2) = \frac{\pi}{6} \quad (30^\circ) \quad (A1)(A1)$$

ie: Accept decimal approximations of the radian measures.

$$|z_1 z_2| = 2 \Rightarrow |z_1| |z_2| = 2; \left| \frac{z_1}{z_2} \right| = 2 \Rightarrow \frac{|z_1|}{|z_2|} = 2 \quad (M1)$$

solving simultaneously

$$|z_1| = 2; |z_2| = 1 \quad (A1)$$

[7 marks]

**METHOD 2**

$$z_1 = 2iz_2 \quad 2iz_2^2 = -\sqrt{3} + i \quad (M1)$$

$$z_2^2 = \frac{-\sqrt{3} + i}{2i} \quad (A1)$$

$$z_2 = \sqrt{\frac{-\sqrt{3} + i}{2i}} = \frac{\sqrt{3}}{2} + \frac{1}{2}i \text{ or } e^{i\pi/6} \quad (M1)(A1)$$

(allow  $0.866 + 0.5i$  or  $e^{i\pi/6}$ )

$$z_1 = -1 + \sqrt{3}i \text{ or } 2e^{i2\pi/3} \quad (\text{allow } -1 + 1.73i \text{ or } 2e^{i2\pi/3}) \quad (A1)$$

$$z_1 \quad \text{modules} = 2, \text{ argument} = \frac{2\pi}{3} \quad (A1)$$

$$z_2 \quad \text{modules} = 1, \text{ argument} = \frac{\pi}{6} \quad (A1)$$

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**AW Rasmussen**



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