

**Subject – Math AA(Higher Level)**  
**Topic – Algebra**  
**Year – May 2021 – Nov 2022**  
**Paper -1**  
**Questions**

**Question 1**

[Maximum mark: 18]

- (a) Express  $-3 + \sqrt{3}i$  in the form  $re^{i\theta}$ , where  $r > 0$  and  $-\pi < \theta \leq \pi$ . [5]

Let the roots of the equation  $z^3 = -3 + \sqrt{3}i$  be  $u$ ,  $v$  and  $w$ .

- (b) Find  $u$ ,  $v$  and  $w$  expressing your answers in the form  $re^{i\theta}$ , where  $r > 0$  and  $-\pi < \theta \leq \pi$ . [5]

On an Argand diagram,  $u$ ,  $v$  and  $w$  are represented by the points  $U$ ,  $V$  and  $W$  respectively.

- (c) Find the area of triangle  $UVW$ . [4]

- (d) By considering the sum of the roots  $u$ ,  $v$  and  $w$ , show that  
 $\cos \frac{5\pi}{18} + \cos \frac{7\pi}{18} + \cos \frac{17\pi}{18} = 0$ . [4]

**Question 2**

[Maximum mark: 8]

- (a) Show that  $\log_2(\cos 2x + 2) = \log_2 \sqrt{\cos 2x + 2}$ . [3]

- (b) Hence or otherwise solve  $\log_2(2 \sin x) = \log_2(\cos 2x + 2)$  for  $0 < x < \frac{\pi}{2}$ . [5]

**Question 3**

[Maximum mark: 5]

- (a) Show that  $(2n - 1)^2 + (2n + 1)^2 = 8n^2 + 2$ , where  $n \in \mathbb{Z}$ . [2]

- (b) Hence, or otherwise, prove that the sum of the squares of any two consecutive odd integers is even. [3]

**Question 4**

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**D Siedentop**



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