

Subject - Math AA(Standard Level)
Topic - Number and Algebra
Year - May 2021 - Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 8]

(a) Show that $\log_8 (\cos 2x + 2) = \log_8 \sqrt{\cos 2x + 2}$. [3]

(b) Hence or otherwise solve $\log_8 (2 \sin x) = \log_8 (\cos 2x + 2)$ for $0 < x < \frac{\pi}{2}$. [5]

Question 2

[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 3

[Maximum mark: 5]

Consider an arithmetic sequence where $u_5 = S_5 = 8$. Find the value of the first term, u_1 , and the value of the common difference, d .

Question 4

[Maximum mark: 4]

The diameter of a spherical planet is 6×10^4 km.

(a) Write down the radius of the planet. [1]

The volume of the planet can be expressed in the form $\pi(a \times 10^6)$ km³ where $1 \leq a < 10$ and $k \in \mathbb{Z}$.

(b) Find the value of a and the value of k . [3]

Question 5

[Maximum mark: 4]

Consider two consecutive positive integers, n and $n + 1$.

Show that the difference of their squares is equal to the sum of the two integers.

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Lingsheng Yao



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