# 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  $\log_9(\cos 2x + 2) = \log_3 \sqrt{\cos 2x + 2}$ . [3]
- (b) Hence or otherwise solve  $\log_3(2\sin x) \log_9(\cos 2x + 2)$  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  $u_0 = S_0 = 8$ . 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  $6 \times 10^4 \mathrm{km}$ .

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

The volume of the planet can be expressed in the form  $\pi(a \times 10^{\circ}) \text{km}^{\circ}$  where  $1 \le a < 10$  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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