#### SECTION A

#### **QUESTION 1**

- The 100th term of an arithmetic sequence is 512 and its common difference (a) is 7, determine the first term of the sequence.
  - (3)

- The general term of a sequence is  $T_n = 2n + 3$ . (b)
  - Show that the sequence is arithmetic. (1)(3)
  - (2)Determine, in terms of n, a simplified expression for S, the sum of the first a terms. (3)
- (c) Consider the given quadratic sequence: 4;7;14;25;... Determine a simplified expression for the nth term of the sequence. (4)[13]

#### QUESTION 2

- Given:  $\sum_{n=0}^{\infty} 108 \times \left(\frac{2}{3}\right)^n$ (a)
  - (1)Determine the first two terms. (2)
  - If  $\sum_{n=0}^{\infty} 108 \times \left(\frac{2}{3}\right)^n = \frac{520}{3}$ , determine the value of x. (4)
- (b) Hollow plastic hemispheres are created such that each successive one fits into the previous one.

The radii OB = 21 cm, OD = 3 cm and OF =  $\frac{3}{7}$  cm.



Determine the sum of the outer surface areas, as shaded in the diagram, of all such hemispheres created by continuing the pattern indefinitely.

Useful formula: Surface Area of a hemisphere =  $2\pi r^2$ 

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Yijin Wang

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