

SECTION A

QUESTION 1

- (a) The 100th term of an arithmetic sequence is 512 and its common difference is 7, determine the first term of the sequence. (3)
- (b) The general term of a sequence is $T_n = 2n + 3$.
- (1) Show that the sequence is arithmetic. (3)
- (2) Determine, in terms of n , a simplified expression for S_n , the sum of the first n terms. (3)
- (c) Consider the given quadratic sequence: 4 ; 7 ; 14 ; 25 ; ...
Determine a simplified expression for the n th term of the sequence. (4)
- [13]**

QUESTION 2

- (a) Given: $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n$
- (1) Determine the first two terms. (2)
- (2) If $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n = \frac{520}{3}$, 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 = $2\pi r^2$

(5)
[11]

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