

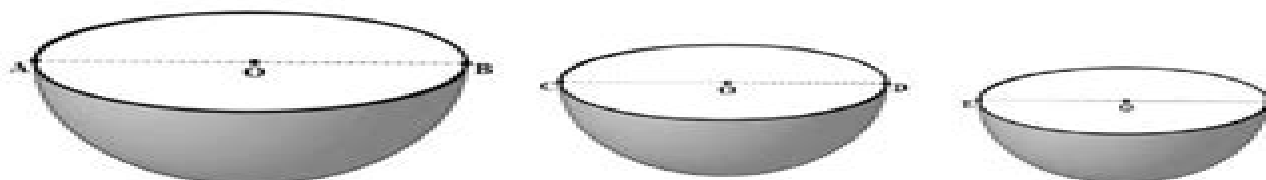
**SECTION A****QUESTION 1**

- (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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**Robert R. Redfield**



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