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PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	GEOMETRIC SERIES
PAPER TYPE:	QUESTION PAPER - 1
TOTAL QUESTIONS	8
TOTAL MARKS	34

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Questions

Q1.

Find the sum (S) of the geometric series $3 + 6 + 12 + \dots$ With $a = 3$ and $r = 2$

(4)

(Total for question = 4 marks)

Q2.

Determine the sum of the geometric series $8 - 4 + 2 + \dots$ with $a = 8$ and $r = -0.5$.

(4)

(Total for question = 4 marks)

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Q3.

Find the sum of the geometric series $2 + 6 + 18 + \dots$ With $a = 2$ and $r = 3$

(3)

(Total for question = 3 marks)

Q4.

Calculate the sum of the geometric series $4 - 2 + 1 - \frac{1}{2} + \dots$ With $a = 4$
and $r = -\frac{1}{2}$

(5)

(Total for question = 5 marks)

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Q5.

Determine the sum of the geometric series $7 - \frac{7}{3} + \frac{7}{9} - \frac{7}{27} + \dots$ With $a = 7$ and $r = -\frac{1}{3}$.

(5)

(Total for question = 5 marks)

Q6.

Find the sum of the geometric series $1 + \frac{2}{3} + \frac{4}{9} + \frac{8}{27} + \dots$ with $a = 1$ and $r = \frac{2}{3}$

(4)

(Total for question = 4 marks)

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Q7.

Calculate the sum of the geometric series $-5, 10, -20, 40, \dots$. With $a = -5$ and $r = -2$.

(5)

(Total for question = 5 marks)

Q8.

Determine the sum of the geometric series $6 + \frac{3}{2} + \frac{3}{4} + \frac{3}{8} + \dots$. With $a = 6$ and $r = \frac{1}{2}$.

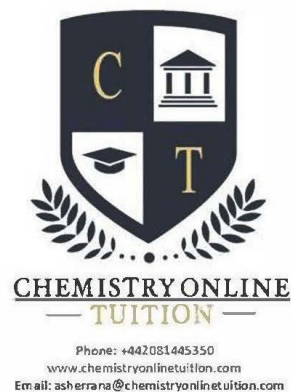
(4)

(Total for question = 4 marks)

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DR. ASHAR RANA



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