

Phone: +442081445350

www.chemistryonlinetuition.com

Email:asherrana@chemistryonlinetuition.com

PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	GEOMETRIC SERIES
PAPER TYPE:	QUESTION PAPER - 2
TOTAL QUESTIONS	8
TOTAL MARKS	34

ChemistryOnlineTuition Ltd reserves the right to take legal action against any individual/ company/organization involved in copyright abuse.

Questions

Q1.

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

r = -0.5.

(4) (Total for question = 4 marks)



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

(4) (Total for question = 4 marks)



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 = 4and $r = -\frac{1}{2}$

> (5) (Total for question = 5 marks)

Q5. Determine the sum of the geometric series $7 - \frac{7}{3} + \frac{7}{9} - \frac{7}{27} + \dots$ With a = 7and $r = -\frac{1}{3}$.

> (5) (Total for question = 5 marks)



Q6.

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

(Total for question = 4 marks)



Q7.

Calcualte the sum of the geometric series -5, 10, -20, 40 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)



DR. ASHAR RANA



- Founder & CEO of Chemistry Online Tuition Ltd.
- Tutoring students in UK and worldwide since 2008
- CIE & EDEXCEL Examiner since 2015
- · Chemistry, Physics, and Math's Tutor

CONTACT INFORMATION FOR CHEMISTRY ONLINE TUITION

- · UK Contact: 02081445350
- International Phone/WhatsApp: 00442081445350
- Website: www.chemistryonlinetuition.com
- Email: asherrana@chemistryonlinetuition.com

Address: 210-Old Brompton Road, London SW5 OBS, UK