

MCR3U – Cumulative Question Sheet

CHAPTER 7

1. For each of following sequence, determine

i) the general term, and ii) t_{20}

a) $\overset{2}{3}, \overset{2}{5}, \overset{2}{7}, \overset{2}{9}, \dots$ (arithmetic)
 (i) $t_n = 3 + (n-1)(2)$

(ii) $t_{20} = 3 + (20-1)(2)$
 $t_{20} = 3 + (19)(2)$
 $t_{20} = 41$

b) $\overset{3}{3}, \overset{3}{12}, \overset{3}{48}, \overset{3}{192}, \dots$
 (i) $t_n = (3)(4)^{n-1}$

(ii) $t_{20} = (3)(4)^{20-1}$
 $t_{20} = (3)(4)^{19}$
 $t_{20} = 8,246 \times 10^{11}$

2. Determine the number of terms in each of following sequence. Show your work using formula.

a) $35, 31, 27, 23, \dots, -21$ (arithmetic)
 $-4, -4$

$t_n = -21, a = 35, d = -4$
 $-21 = 35 + (n-1)(-4)$
 $14 = n-1$
 $15 = n$

b) $3, 6, 12, 24, \dots, 1536$ (geometric) $\frac{t_2}{t_1} = \frac{6}{3} = 2$

$t_n = (3)(2)^{n-1}$
 $1536 = (3)(2)^{n-1}$
 $\log 512 = \log 2 \times (n-1)$
 $9 = n-1$
 $n = 10$

3. Given the sequence defined by the recursive formula $t_1 = 1, t_2 = 3, t_n = t_{n-1} + 4t_{n-2}$, where

$n \in \mathbb{N}$ and $n \geq 2$, generate the first 5 terms.

$t_1 = 1$
 $t_2 = 3$
 $t_3 = t_{3-1} + 4t_{3-2} = t_2 + 4t_1 = (3) + 4(1) = 7$
 $t_4 = t_{4-1} + 4t_{4-2} = t_3 + 4t_2 = (7) + 4(3) = 19$
 $t_5 = t_{5-1} + 4t_{5-2} = t_4 + 4t_3 = (19) + 4(7) = 47$
 $\therefore 1, 3, 7, 19, 47$

4. Calculate the sum of each series.

a) $\overset{3}{1} + \overset{3}{4} + \overset{3}{7} + \overset{3}{10} + \dots + 118$ (arithmetic)
 $t_n = 1 + (n-1)(3)$
 $118 = 1 + (n-1)(3)$
 $40 = n$

$S_n = \frac{n[2a + (n-1)d]}{2}$
 $S_{40} = \frac{40[2(1) + (40-1)(3)]}{2}$
 $S_{40} = 2380$

b) S_{20} of $4 + 12 + 36 + 108 + \dots$ $\frac{t_2}{t_1} = \frac{12}{4} = 3$
 $r = 3, a = 4$
 $S_{20} = \frac{a(r^n - 1)}{r - 1} = \frac{(4)(3^{20} - 1)}{3 - 1}$

$S_{20} = 6,973,568,800$

Geometric Sequence And Series Practice Problems 99

Answers

Scott A. Annin



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Ellina Grigorieva, 2016-12-09 This book aims to dispel the mystery and fear experienced by students surrounding sequences series convergence and their applications The author an accomplished female mathematician achieves this by taking a problem solving approach starting with fascinating problems and solving them step by step with clear explanations and

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Competitive Math for Middle School Vinod Krishnamoorthy, 2018-04-09 The 39 self contained sections in this book present worked out examples as well as many sample problems categorized by the level of difficulty as Bronze Silver and Gold in order to help the readers gauge their progress and learning Detailed solutions to all problems in each section are provided at the end of each chapter The book can be used not only as a text but also for self study The text covers algebra solving single equations and systems of equations of varying degrees algebraic manipulations for creative problem solving inequalities basic set theory sequences and series rates and proportions unit analysis and percentages probability counting techniques introductory probability theory more set theory permutations and combinations expected value and symmetry and number theory prime factorizations and their applications Diophantine equations number bases modular arithmetic and divisibility It focuses on guiding students through creative problem solving and on teaching them to apply their knowledge in a wide variety of scenarios rather than rote memorization of mathematical facts It is aimed at but not limited to high performing middle school students and goes further in depth and teaches new concepts not otherwise taught in traditional public schools

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