

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

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

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