MCR3U – Cummulative Question Sheet   CHAPTER 7

1. For each of following sequence, determine

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

   a) $3, 5, 7, 9 \ldots$ (arithmetic)

   (i) $t_n = 3 + (n-1)(2)$

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

   $t_{20} = 3 + (19)(2)$

   $t_{20} = 41$

   b) $3, 12, 48, 192, \ldots$ $\frac{t_2}{t_1} = \frac{12}{3} = 4$ $\frac{t_3}{t_2} = \frac{48}{12} = 4$

   (geometric)

   (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) $35, 31, 27, 23, \ldots, -21$ (arithmetic)

   $-4 \quad -4$

   $t_n = -21, \ a = 35, \ d = -4$

   $-21 = 35 + (n-1)(-4)$

   $14 = n - 1$

   $\boxed{15 = n}$

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

   $3 \quad 6 \quad 12$

   $t_n = (3)(2)^{n-1}$

   $1536 = (3)(2)^{n-1}$

   $\log 512 = \log 2 \times (n-1)$

   $9 = n - 1$

   $\boxed{n = 10}$

3. Given the sequence defined by the recursive formula $t_1 = 1$, $t_2 = 3$, $t_n = t_{n-1} + 4t_{n-1}$, where $n \in N$ and $n \geq 2$, generate the first 5 terms.

   $t_1 = 1$

   $t_2 = 3$

   $t_3 = t_{3-1} + 4t_{3-1} = t_2 + 4t_2 = (3) + 4(3) = 15$

   $t_4 = t_{4-1} + 4t_{4-1} = t_3 + 4t_3 = (15) + 4(15) = 75$

   $t_5 = t_{5-1} + 4t_{5-1} = t_4 + 4t_4 = (75) + 4(75) = 375$

   $\therefore 1, 3, 15, 75, 375$

4. Calculate the sum of each series.

   a) $1 + 4 + 7 + 10 + \ldots + 118$ (arithmetic)

   $3 \quad 3 \quad 3$

   $t_n = 1 + (n-1)(3)$

   $118 = 1 + (n-1)(3)$

   $\boxed{40 = n}$

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

   $S_{40} = \frac{40[2(1) + (40-1)(3)]}{2}$

   $\boxed{S_{40} = 2380}$

   b) S_{20} of $4 + 12 + 36 + 108 + \ldots$ $\frac{t_2}{t_1} = \frac{12}{4} = 3$

   $r = 3, \ a = 4$

   $S_{20} = \frac{a(r^n - 1)}{r - 1} = \frac{(4)(3^{20} - 1)}{3 - 1}$

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

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