

# 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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**Mike Jess**



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*Algebra 2* ,2000-04-05      **Geometry, Grade 10 Standardized Test Practice Workbook** Holt McDougal,2000-05-26

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The geometric problems in this packet are designed to reinforce students math skills Students will solve word problems analyze geometric figures and practice formulas for area circumference and volume The exercises are designed so students can work with a minimum of supervision in a classroom or at home      *Mathematical Connections* ,2000-03-15      **Holt McDougal**

**Larson Geometry** Holt McDougal,2011-07      *McDougal Littell Geometry* Ron Larson,2002-01-02 Practice workbook with examples to accompany McDougal Littell geometry      *Geometry, Grade 10 Practice Workbook with Examples* Holt

McDougal,2000      *Geometry* Holt, Rinehart and Winston Staff,1997-01-01      *Geometry, Homework Practice Workbook*

McGraw-Hill Education,2008-12-10 The Homework Practice Workbook contains two worksheets for every lesson in the Student Edition This workbook helps students Practice the skills of the lesson Use their skills to solve word problems

*Geometry Proofs Essential Practice Problems Workbook with Full Solutions* Chris McMullen,2019-05-24 This geometry workbook includes 64 proofs with full solutions 9 examples to help serve as a guide and a review of terminology notation and concepts A variety of word topics are covered including similar and congruent triangles the Pythagorean theorem circles chords tangents alternate interior angles the triangle inequality the angle sum theorem quadrilaterals regular polygons area of plane figures inscribed and circumscribed figures and the centroid of a triangle The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students He prepared this workbook to share his strategies for writing geometry proofs      *McDougal Littell High Geometry: Standardized Test Practice Workbook* Se McDougal Littell,2000-05 Provides practice exercises for every lesson in a standardized test format

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