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Solomon Press C1 SEQUENCES AND SERIES Answers - Worksheet B
1 a $d = 6$ b $d = -3$ c $d = 2.3$ $u_{40} = 4 + (39 \times 6) = 238$ $u_{40} = 30 + (39 \times -3) = -87$ $u_{40} = 8.9 + (39 \times 2.3) = 98.6$
2 a $a = 7$, $d = 2$ b $a = 16$, $d = 4$ 3 c $a = 17$, $d = -8$ $u_n = 7 + 2(n - 1) = 5 + 2n$ $u_n = 16 + 4(n - 1) = 76 - 4(n - 1)$ $u_n = 17 - 8(n - 1) = 25 - 8n$
3 a $a = 8$, $d = 4$, $n = 30$ b $a = 60$, $d = -7$, $n = 30$ c $a = 1$

SEQUENCES AND SERIES Answers - Worksheet A

Solomon Press C1 SEQUENCES AND SERIES Worksheet C 1 The third term of an arithmetic series is -10 and the sum of the first eight terms of the series is 16 . a Find the first term and common difference of the series. b Find the smallest value of n for which the n th term of the series is greater than 300 . 2 The third and seventh terms of an arithmetic series are 5

C1 SEQUENCES AND SERIES Worksheet C

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Chapter 6 Sequences and Series 6.1 Arithmetic and geometric sequences and series The sequence defined by $u_1 = a$ and $u_n = u_{n-1} + d$ for $n \geq 2$ begins $a, a+d, a+2d, \dots$ and you should recognise this as the arithmetic sequence with first term a and common difference d . The n th term (i.e. the solution) is given by $u_n = a + (n - 1)d$.

Chapter 6 Sequences and Series 6 SEQUENCES AND SERIES

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SEQUENCES AND S Worksheet A - PMT

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The Corbettmaths Practice Questions on the nth term for Linear Sequences

Sequences nth Term Practice Questions - Corbettmaths

(C1-6.6a) Name: Homework Questions 6 - Partial sums of Arithmetic Sequences 1. Find the sum of the following series a) 17, 25, 33, 41...(25 terms) 732 b) 15, 26, 37, 42....(15 terms) ... Find the 3rd term of the arithmetic sequence if the 6th term is 24 and the 15th term is 21 a = 25 2 3

(C1-6.1a) Name: Homework Questions 1 - Terms of a Sequences

Find the explicit formula for the geometric sequence c, with the following information given. $c_1 = 6$ $c_4 = 3$ Select the correct answer below: $C_n = (6)^n$ $C_n = \frac{1}{3} (6)^{n-1}$ $C_n = 6 (-\frac{1}{3})^{n-1}$ $C_n = 6 (4)^n$ $G_n = 6 (4)^{n-1}$

Answered: Find the explicit formula for the... | bartleby

Geometric Series Questions (c) Find the sum to infinity of the geometric series $5 + 6 + 5 + 18 + 5 + 54 + \dots$ [3] (d) State the

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condition for an infinite geometric series with common ratio r to be convergent. [1] Question 10 - Jan 2007 6. A trading company made a profit of \$50,000 in 2006 (Year 1).

Geometric Series - Past Edexcel Exam Questions

Sequences and series Series and partial sums Definitions Definition (Series) Let $a_0; a_1; \dots$ be any sequence. Then, the sum $\sum_{i=0}^n a_i$ is called a series. Definition (Partial sum) Let $n \in \mathbb{N}$. Then, the n -th partial sum of the series $\sum_{i=0}^{\infty} a_i$, denoted S_n , is the sum $\sum_{i=0}^n a_i$. The partial sums themselves also form a sequence!

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