

## Series Past Papers 2002-2019

### Question 1:

A progression has a first term of 12 and a fifth term of 18.

- (i) Find the sum of the first 25 terms if the progression is arithmetic. [3]  
 (ii) Find the 13th term if the progression is geometric. [4]

#### Answer:

4	(i) $a=12$ $a+4d=18$ $\therefore d=1.5$  $S_{25} = 25/2(24 + 24 \times 1.5)$ $= 750$	B1 M1 A1 3	Correct only  Use of $S_n$ formula. Correct only.
	(ii) $a=12$ $ar^4=18$ $r^4=1.5$ 13th term $= ar^{12}$ $= 12 \times (1.5)^3$ $= 40.5$ or $40.6$	M1 A1 M1 A1 4	Correct method for $r$ or $r^4$ (needs $ar^4$ )  Needs $ar^{12}$ and method for solving $r$ (or $r^4$ ) Correct only.

9709/1/W/J02

### Question 2:

A geometric progression, for which the common ratio is positive, has a second term of 18 and a fourth term of 8. Find

- (i) the first term and the common ratio of the progression, [3]  
 (ii) the sum to infinity of the progression. [2]

#### Answer:

2.	(i) $ar=18$ and $ar^3=8$ Solution to give $r=2/3$ $a=18 \div r = 27.0$	M1 DM1 A1 3	Any 2 equations of type $ar^n$ Correct method on correct 2 equations. For $a=18 \div r$
	(ii) Sum to infinity $= a/(1-r)$ Answer = 81.0	M1 A1 2	Correct formula applied – even if $>1$ . Follow through provided $r < 1$ .  (ignore $r=2/3$ )

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### Question 3

- (a) A debt of \$3726 is repaid by weekly payments which are in arithmetic progression. The first payment is \$60 and the debt is fully repaid after 48 weeks. Find the third payment. [3]  
 (b) Find the sum to infinity of the geometric progression whose first term is 6 and whose second term is 4. [3]

#### Answer:

3	(a) $a=60$ , $n=48$ , $S_n=3726$ $S_n$ formula used $\therefore d = \$0.75$ $3^{rd}$ term $= a+2d = \$61.50$	M1 A1 A1 ✓ [3]	Correct formula (M0 if $n$ th term used) Co Use of $a+2d$ with his $d$ . 61.5 ok.
	(b) $a=6$ $ar=4$ $\therefore r=2/3$ $S_\infty = a/(1-r) = 18$	M1 M1A1 [3]	$a$ , $ar$ correct, and $r$ evaluated Correct formula used, but needs $r < 1$ for M mark

9709/01/O/74/03

### Question 4:

Find

- (i) the sum of the first ten terms of the geometric progression 81, 54, 36, ... [3]  
 (ii) the sum of all the terms in the arithmetic progression 180, 175, 170, ..., 25. [3]

#### Answer:

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**L Darling-Hammond**



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