

www.mrc-papers.com



CLASSIFIED

International Examinations Papers

Mob: +974 55249797 / 55258711

E-mail: rashed.saba@gmail.com

Pure Mathematics-1

TOPIC- Sequences

Arithmetic Progression

Arithmetic Progression

- 1 The first term of an arithmetic progression is 61 and the second term is 57. The sum of the first n terms is n . Find the value of the positive integer n . [4]

$n=12-11-1$

- 02 The first term of an arithmetic progression is 6 and the fifth term is 12. The progression has n terms and the sum of all the terms is 90. Find the value of n . [4]

$n=8-3$



Arithmetic Progression

3 The ninth term of an arithmetic progression is 22 and the sum of the first 4 terms is 49.

(i) Find the first term of the progression and the common difference.

$7-10-11-3$

[4]

The n th term of the progression is 46.

(ii) Find the value of n .

[2]



Arithmetic Progression

7-16-13
5

- 4 The 1st, 3rd and 13th terms of an arithmetic progression are also the 1st, 2nd and 3rd terms respectively of a geometric progression. The first term of each progression is 3. Find the common difference of the arithmetic progression and the common ratio of the geometric progression. [5]

7-16-13-4



Arithmetic Progression

5 An arithmetic progression has first term a and common difference d . It is given that the sum of the first 200 terms is 4 times the sum of the first 100 terms.

(i) Find d in terms of a .

7-14-11-5

[3]

(ii) Find the 100th term in terms of a .

[2]



Arithmetic Progression

- 06 In an arithmetic progression, the 1st term is -10 , the 15th term is 11 and the last term is 41 . Find the sum of all the terms in the progression. [5]

✓ 3-4

