

CLASS 10 MATHEMATICS

CH-5 ARITHMETIC PROGRESSION (AP)

EX-5.1

Q3. For the following A.P.s, write the first term and the common difference.

(i) 3, 1, - 1, - 3 ...

ANSWER:

Given series;

3, 1, - 1, - 3 ...

First term, $a = 3$

Common difference, $d = a_2 - a_1$ or
 $a_n - a_{n-1}$

therefore,

$$d = 1 - 3 = -2$$

THUS, $d = -2$

(ii) Given series, - 5, - 1, 3, 7 ...

ANSWER:

First term, $a = -5$

Common difference, $d = a_2 - a_1$

therefore,

$$d = (-1) - (-5) = -1 + 5 = 4$$

THUS, $d = 4$

(iii) Given series, $1/3, 5/3, 9/3, 13/3 \dots$

ANSWER:

First term, $a = 1/3$

Common difference, $d = a_2 - a_1$

therefore,

$$d = 5/3 - 1/3 = 4/3$$

THUS,

$$d = 4/3$$

(iv) Given series, $0.6, 1.7, 2.8, 3.9 \dots$

ANSWER:

First term, $a = 0.6$

Common difference, $d = a_2 - a_1$

therefore,

$$d = 1.7 - 0.6 = 1.1$$

THUS,

$$d = 1.1$$

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