

Mathematics

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(Chapter – 5) (Arithmetic Progressions) (Exercise 5.1)
(Class X)

Question 4:

Which of the following are APs? If they form an AP, find the common difference d and write three more terms.

(i) 2, 4, 8, 16, ...

(iii) -1.2, -3.2, -5.2, -7.2, ...

(v) $3, 3 + \sqrt{2}, 3 + 2\sqrt{2}, 3 + 3\sqrt{2}, \dots$

(vii) 0, -4, -8, -12, ...

(ix) 1, 3, 9, 27, ...

(xi) a, a^2, a^3, a^4, \dots

(xiii) $\sqrt{3}, \sqrt{6}, \sqrt{9}, \sqrt{12}, \dots$

(xv) $1^2, 5^2, 7^2, 73, \dots$

(ii) $2, \frac{5}{2}, 3, \frac{7}{2}, \dots$

(iv) -10, -6, -2, 2, ...

(vi) 0.2, 0.22, 0.222, 0.2222, ...

(viii) $-\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, -\frac{1}{2}, \dots$

(x) $a, 2a, 3a, 4a, \dots$

(xii) $\sqrt{2}, \sqrt{8}, \sqrt{18}, \sqrt{32}, \dots$

(xiv) $1^2, 3^2, 5^2, 7^2, \dots$

Answer 4:

(i) 2, 4, 8, 16, ...

$$a_2 - a_1 = 4 - 2 = 2$$

$$a_3 - a_2 = 8 - 4 = 4$$

$$a_4 - a_3 = 16 - 8 = 8$$

The difference between the successive terms are not same. Hence, it is not an A.P.

(ii) $2, \frac{5}{2}, 3, \frac{7}{2}, \dots$

$$a_2 - a_1 = \frac{5}{2} - 2 = \frac{1}{2}$$

$$a_3 - a_2 = 3 - \frac{5}{2} = \frac{1}{2}$$

$$a_4 - a_3 = \frac{7}{2} - 3 = \frac{1}{2}$$

The difference between the successive terms are same. Hence, it is an A.P.

Common difference = $\frac{1}{2}$, next three terms of this AP is as follows:

$$\text{Fifth term } a_5 = a_4 + d = \frac{7}{2} + \frac{1}{2} = 4$$

$$\text{Sixth term } a_6 = a_5 + d = 4 + \frac{1}{2} = \frac{9}{2}$$

$$\text{Seventh term } a_7 = a_6 + d = \frac{9}{2} + \frac{1}{2} = 5$$

(iii) -1.2, -3.2, -5.2, -7.2, ...

$$a_2 - a_1 = -3.2 - (-1.2) = -2.0$$

$$a_3 - a_2 = -5.2 - (-3.2) = -2.0$$

$$a_4 - a_3 = -7.2 - (-5.2) = -2.0$$

The difference between the successive terms are same. Hence, it is an A.P.

Common difference = -2.0, next three terms of this AP is as follows:

$$\text{Fifth term } a_5 = a_4 + d = -7.2 - 2.0 = -9.2$$

$$\text{Sixth term } a_6 = a_5 + d = -9.2 - 2.0 = -11.2$$

$$\text{Seventh term } a_7 = a_6 + d = -11.2 - 2.0 = -13.2$$

(iv) -10, -6, -2, 2, ...

$$a_2 - a_1 = -6 - (-10) = 4$$

$$a_3 - a_2 = -2 - (-6) = 4$$

$$a_4 - a_3 = 2 - (-2) = 4$$

The difference between the successive terms are same. Hence, it is an A.P.

Common difference = 4, next three terms of this AP is as follows:

$$\text{Fifth term } a_5 = a_4 + d = 2 + 4 = 6$$

$$\text{Sixth term } a_6 = a_5 + d = 6 + 4 = 10$$

$$\text{Seventh term } a_7 = a_6 + d = 10 + 4 = 14$$

Maths Workout 5

**Siew Hoon Lim, Peck Hoon Teo, Kin
Pheng Whey, Michael Quinn**



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