
D1 Maths Book Solutions Pdf

(i) 2, 6, 10, 14,

$$d_1 = 6 - 2 = 4$$

$$d_2 = 10 - 6 = 4$$

$$d_3 = 14 - 10 = 4$$

Since $d_1 = d_2 = d_3$, the given sequence is in arithmetic progression.

(ii) 15, 12, 9, 6,

$$d_1 = 12 - 15 = -3$$

$$d_2 = 9 - 12 = -3$$

$$d_3 = 6 - 9 = -3$$

Since $d_1 = d_2 = d_3$, the given sequence is in arithmetic progression.

(iii) 5, 9, 12, 18,

$$d_1 = 9 - 5 = 4$$

$$d_2 = 12 - 9 = 3$$

Since $d_1 \neq d_2$, the given sequence is not in arithmetic progression.

(iv) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \dots$

$$d_1 = \frac{1}{3} - \frac{1}{2} = \frac{2-3}{6} = -\frac{1}{6}$$

$$d_2 = \frac{1}{4} - \frac{1}{3} = \frac{3-4}{12} = -\frac{1}{12}$$

Since $d_1 \neq d_2$, the given sequence is not in arithmetic progression.

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