

Worksheet 9.1 Sequences and series

Name: _____

1 Determine the first 3 terms of the sequence $t_n = 2n - 6$, $n \in \{1, 2, 3, \dots\}$.

$$t_1 = 2 \times 1 - 6 = -4$$

$$t_2 = 2 \times 2 - 6 = -2$$

$$t_3 = 2 \times 3 - 6 = 0$$

The first 3 terms are -4 , -2 , and 0 .

2 Show that the sequence $t_n: \{-0.9, -0.7, -0.5, \dots\}$ is an arithmetic sequence.

$$t_2 - t_1 = -0.7 - (-0.9) = 0.2$$

$$t_3 - t_2 = -0.5 - (-0.7) = 0.2$$

∴ Common difference = 0.2

Thus, it is an arithmetic sequence.

3 Find the rule for the arithmetic sequence $t_n: \{\frac{1}{8}, \frac{3}{8}, \frac{5}{8}, \dots\}$.

$$a = \frac{1}{8}, d = \frac{2}{8} = \frac{1}{4}$$

$$t_n = \frac{1}{8} + (n - 1) \times \frac{1}{4}$$

$$t_n = \frac{1}{8} + \frac{n}{4} - \frac{1}{4}$$

$$t_n = -\frac{1}{8} + \frac{n}{4}$$

This is the required rule.

4 Find the 10th term of the arithmetic sequence $t_n: \{-10, -6, -2, \dots\}$.

$$a = -10, d = 4$$

$$t_{10} = -10 + (10 - 1) \times 4$$

$$t_{10} = -10 + 9 \times 4$$

$$t_{10} = 26$$

The 10th term is 26 .

5 The 3 consecutive terms of an arithmetic sequence are 3.6 , y , 8.2 . Find the value of y .

$$y = \frac{(3.6 + 8.2)}{2}$$

$$y = 5.9$$

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Answers

G Thomas

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