

CLASS 9 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 8: HOTS: Sequences and Progressions (Class 9)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. The n th term of a sequence is $4n - 1$. Find the 25th term.
2. Find the sum of the first 12 terms of the AP with first term 2 and common difference 5.
3. Find the 7th term of the GP 3, 6, 12, ...
4. The sum of the first three terms of a GP is 21 and the common ratio is 2. Find the first term.
5. Find the next term of the sequence 1, 2, 4, 7, 11, ...
6. How many terms are there in the AP 7, 11, 15, ..., 95?
7. Find the next term of the GP 2, -4, 8, ...
8. Find the sum of the first 20 natural numbers.

Answer Key

1. 99.
2. 354.
3. 192.
4. 3 (the terms are 3, 6, 12).
5. 16 (the differences are 1, 2, 3, 4, 5).
6. 23.
7. -16 (the common ratio is -2).
8. 210.

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