ONLINE MATHS CLASS - X - 09 (08 / 07 /2021)

1. ARITHMETIC SEQUENCE - CLASS 7 – WORK SHEET

1. The algebraic form of a sequence is $3n + 2$.

  a) Write down the sequence .

  b) Check whether this sequence is an arithmetic sequence .

2. The algebraic form of of a sequence is is $6n - 1$.

  a) Write down the sequence .

  b) Check whether this sequence is an arithmetic sequence .

3. 10th term of an arithmetic sequence is 20 and its 20th term is 10 .

  a) What is its common difference ?

  b) What is its first term ?

  c) What is its algebraic form ?

  d) What is its 30th term   ?

  e) What is the product of first 50 terms of this sequence ?

4. Consider the arithmetic sequence 5 , 9 , 13 , . . .

  a) What is its common difference ?

  b) What is its algebraic form ?

  c) Prove that the squares of all the terms of this sequence belong to it .

5. Consider the arithmetic sequence   9 , 16 , 23 , . . .

  a) What is its common difference ?

  b) What is its algebraic form ?

  c) Prove that the square of any term of this sequence does not belong to it .

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