Sequence and Series

In sequence

a: First term

d: Difference (2nd term - 1st term)

n: General position of term

 n^{th} term of the sequence is given by : nd + (a - d)

Exercise: 18

Find the next 3 terms of the following sequence.

- 1) 2, 5, 7, ____, ___,
- 2) 14, 19, 24, ____, ____, ____
- 3) 20, 27, 34, 41, ____, ___, ___
- 4) 15, 12, 9, ____, ___, ____
- 5) 10, 20, 30, ____, ____,

Fill in the blanks using the sequence rule.

- 6) _____, 7, 10, 13, _____, ____
- 7) _____, 10, 15, 20, _____, ____
- 8) _____, 1, 4, 7, _____, ____
- 9) _____, 15, 12, 9, _____, ____
- 10) _____, 7, 14, 21, _____, ____

Find the nth term of the following sequence.

11) 5, 7, 9....

- nth term=____
- 12) 14, 19, 24
- nth term=____
- 13) 20, 27, 34, 41....
- nth term=_____
- 14) 25, 20, 15....
- nth term=_____
- 15) 36, 42, 48.....
- nth term=____
- 16) Find the 25th term and 100th term of all the sequence of question no 11 to 15.

17) Write the first 4 aaa 2n – 1	terms of the following sequence where n th term is given.
b) 3n + 2	
c) n + 4	
d) 2n – 5	
e) -2n + 1	
Find next three term given. 18). Rule: add 5	s of the following sequence according to rule where first term is 4,,
19) Rule: Multiply by	/ 3 2,,,
20) Rule: Multiply by	/ 2 and add 3: 1,,,
21) Rule: take away	3 12,,,
22) Rule: divide by 2	2 and add 4 24,,,
23) Rule add 2	24,,,
24) Rule: multiply by	/ 3 and add 4 1,,,
25) Rule: Take away	y 5 24,,,