Linear sequence and nth term

Exercise

Find	the	difference	of	the	following	sequence
Fina	tne	aimerence	OI	uie	lollowing	Sequence

- 1) 2, 5, 8 ...
- difference (d) =_____
- 2) 3, 8, 13 ...
- difference (d) =_____
- 3), 20, 27, 34...
- difference (d) =_____
- 4), -7, -10, -13, -16...
- difference (d) =_____
- 5) -12, -9, -6 ...
- difference (d) =_____

Find the next three term of the following sequences.

- 6) 2, 5, 7,____, ____,
- 7) 14, 19, 24, ____, ___, ____
- 8) 20, 27, 34, 41,____, ____,
- 9) 15, 12, 9,____, ____,
- 10) 10, 20 , 30 ,____, ,___,

Find the previous three term of the given sequence

- **11**) , _____, ____, 7, 10, 13.....
- 12) _____, ____, ____, 10, 15, 20....
- 13) _____, _____, ____, 1, 4, 7......
- 14) _____, ____, 15, 12, 9....
- 15) _____, ____, ____, 7, 14, 21......

Find the nth term of the following sequence

- 16) 5, 7, 9....
- nth term=____
- 17) 14, 19, 24
- nth term=_____
- 18) 20, 27, 34, 41....
- nth term=____

- 19)
- 25, 20, 15....
- nth term=_____

- 20)
- 36, 42, 48.....
- nth term=____

Find 25 th 50 th	and the 1	100 th term	of the follo	wing sequen	ice where n ^t	^h is given.
21) 2n – 1 v	vhen n= 2	5,, \	when n=50, _	, and wh	en n=100,	
22) 5n - 2 v	vhen n= 2	5,, \	when n=50, _	, and wh	en n=100,	
23) 3n – 1 v	vhen n= 2	5,, \	when n=50, _	, and wh	en n=100,	-
24) 3n + 2 v	vhen n= 2	5,, \	when n=50, _	, and wh	en n=100,	
25) n ² v	vhen n= 2	5,, v	when n=50, _	, and wh	en n=100,	
Here are the fi 5, 26) Write down 27) Explain ho	9, 13, n the next	17 term of the	e number sec			
28) The 25 th te Work out the 2 29) 20 cannot	26 th term o	of the num	ber sequence	Э.		
30) Here are s	ome patte	erns made	from sticks.			<u></u>
Pattern number a) Comple			number 2		Pattern num	nber 3
Pattern number Number of stick		1 2 3 5	3 7	4	5	6
b) How many s Ben wants to f c) Write c	find the nu		icks in Patter	n number 10	0	