

(C1-6.4a) Name:

Homework Questions 4 – General Term of an Arithmetic Sequence

1. Which of the following sequences are arithmetic?

a) 7, 17, 27, 37

d=10 so yes

b) 12, 5, 0, -9, -17

No

c) 24, 15, 6, -3, -12

d=-9 so yes

2. a) Find the 10th term and
b) Find the formula for the nth term

a) 4, 7, 10, 13

31 $U_n=3n+1$

b) -3, -1, 1, 3

15 $U_n=2n-5$

c) 1, -4, -9, -13

-44 $U_n=-5n+6$

3. Find the 20th term, if the sequence begins...

a) 2, 6, 10, 14, 18

78

b) 5, -3, -11, -19

-147

c) 21, 27.5, 34, 40.5, 47

144.5

4. Find the number of terms in the arithmetic sequence 4, 9, 14, 19,.....169

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