

Class Name : 8B - B Instructor Name : Ms. Ryan

Student Name : _____ Instructor Note :

1. The first three terms of an arithmetic sequence are as follows.

Find the next two terms of this sequence.

2. The first three terms of an arithmetic sequence are as follows.

Find the next two terms of this sequence.

3. The first three terms of an arithmetic sequence are as follows.

Find the next two terms of this sequence.

4. The first three terms of an arithmetic sequence are as follows.

$$-10, -7, -4$$

Find the next two terms of this sequence.

5. The first three terms of an arithmetic sequence are as follows.

$$11, 4, -3$$

Find the next two terms of this sequence.

6. The first three terms of an arithmetic sequence are as follows.

$$-14$$
, -19 , -24

Find the next two terms of this sequence.

7. Find the 64^{th} term of the following arithmetic sequence.

8. Find the $55 \, \text{th}$ term of the following arithmetic sequence.

- **9.** Find the 13^{th} term of the arithmetic sequence whose common difference is d=-6 and whose first term is $a_1=5$.
- **10.** Find the $20^{\,\mathrm{th}}$ term of the arithmetic sequence whose common difference is d=3 and whose first term is $a_1=2$.
- 11. An arithmetic sequence is given below.

$$-23$$
, -18 , -13 , -8 , ...

Write an explicit formula for the n^{th} term a_n .

12. Find the first four terms of the sequence given by the following.

$$a_n = 6n - 16$$
, $n = 1, 2, 3...$

13. For each sequence, determine whether it appears to be arithmetic. If it does, find the common difference.

3, -6, 12, -24,	$m{C}$ Arithmetic Common difference: $d = m{\Box}$
	Not arithmetic
	Arithmetic
-2, -5, -8, -11,	Common difference: $d = \square$
	Not arithmetic
	Arithmetic
8, 12, 15, 18,	Common difference: $d = \square$
	Not arithmetic