

NAME

QUARTER 1

GRADE &amp; SECTION

DATE

## Activity: Arithmetic Sequence

### Part I: Arithmetic Sequence or Not?

If the given is an Arithmetic Sequence,  
 choose YES then give the common difference (d),  
 If Not, choose NO then write NA on the common difference (d).

	Arithmetic Sequence?	common difference (d)
1) -8, 92, 192, 292, ...		
2) 1, 9, 25, 49, ...		
3) 192, 1928, 19288, 192888, ...		
4) 8, 3, -2, -7, ...		
5) -21, 9, 39, 69, ...		

### Part II: Finding the nth term

Complete the information needed to solve the indicated nth term.

Recall that :  $a_n = a_1 + (n - 1)d$

1) What is the 27<sup>th</sup> term in the arithmetic sequence:

-21, -23, -25, -27, ...

$n =$    $a_1 =$    $d =$

**Final answer:**  
 The \_\_th term is .

2) Find  $a_{36}$  in the arithmetic sequence:

-4, -1, 2, 5, ...

$n =$    $a_1 =$    $d =$

**Final answer:**  
 The \_\_th term is .