

## Algebra 2 - Recursion and Iteration, part 1 of 2

The video covers the following exercises. Please print this sheet and work along!

We learn that one way to refer to  $a_n$  is to call it the \_\_\_\_\_

Therefore, it would follow that  $a_{n+1}$  could be called the \_\_\_\_\_

And finally, we can say that  $a_{n-1}$  would be called the \_\_\_\_\_

Please write the first 5 terms of the following sequence:  $a_1 = 4$  ,  $a_{n+1} = 2a_n - 1$

Please write the first 5 terms of the following sequence:  $a_1 = 6$  ,  $a_{n+1} = 3a_n - n$

Please write the first 5 terms of the following sequence:

$$a_1 = 4$$

$$a_2 = 5$$

$$a_{n+2} = 4a_n - 2a_{n+1}$$