multiplying by

$x = 0$

Given the function rule, write the first 5 terms of the function.

A) $f(x) = 5(3)^x$

X	$f(x) = y$
0	5
1	15
2	45
3	135
4	405

B) $f(x) = 99\left(\frac{1}{3}\right)^{x-1}$

$x = 1$

$f(x) = 99\left(\frac{1}{3}\right)^{x-1}$

mult by $\frac{1}{3}$
÷ by 3

X	y
0	297
1	99
2	33
3	11
4	11/3

To find the next term multiply previous by 2

next ← a sub n

previous ← a sub (n-1)

a sub 0

Given the recursive rule, find the first 5 terms of the sequence

$a_{n+0} = 2a_{n-1}$

A) $a_n = 2a_{n-1}$ $a_0 = 5$

$a_n = 2a_{n-1}$ $a_0 = 5$

n	a_n
0	5
1	10
2	20
3	40
4	80

B) $a_{n+1} = .5a_n$ $a_1 = 100$

$a_n = .5a_{n-1}$
$a_0 = 200$

n	a_{n+1}
0	200
1	100
2	50
3	25
4	12.5

$a_{n+2} = .5a_{n+1}$
$a_2 = 50$

C) $a_n = 10a_{n-1}$ $a_0 = 2$

n	a_n
0	2
1	20
2	200
3	2000
4	20000

D) $a_{n+1} = 5a_n$ $a_1 = 10$

n	a_{n+1}
0	2
1	10
2	50
3	250
4	1250