

5-82 How does this sequence grow?

A.)

Sequence A	
n	$t(n)$
1	27
2	54
3	81
4	108
0	

B.)

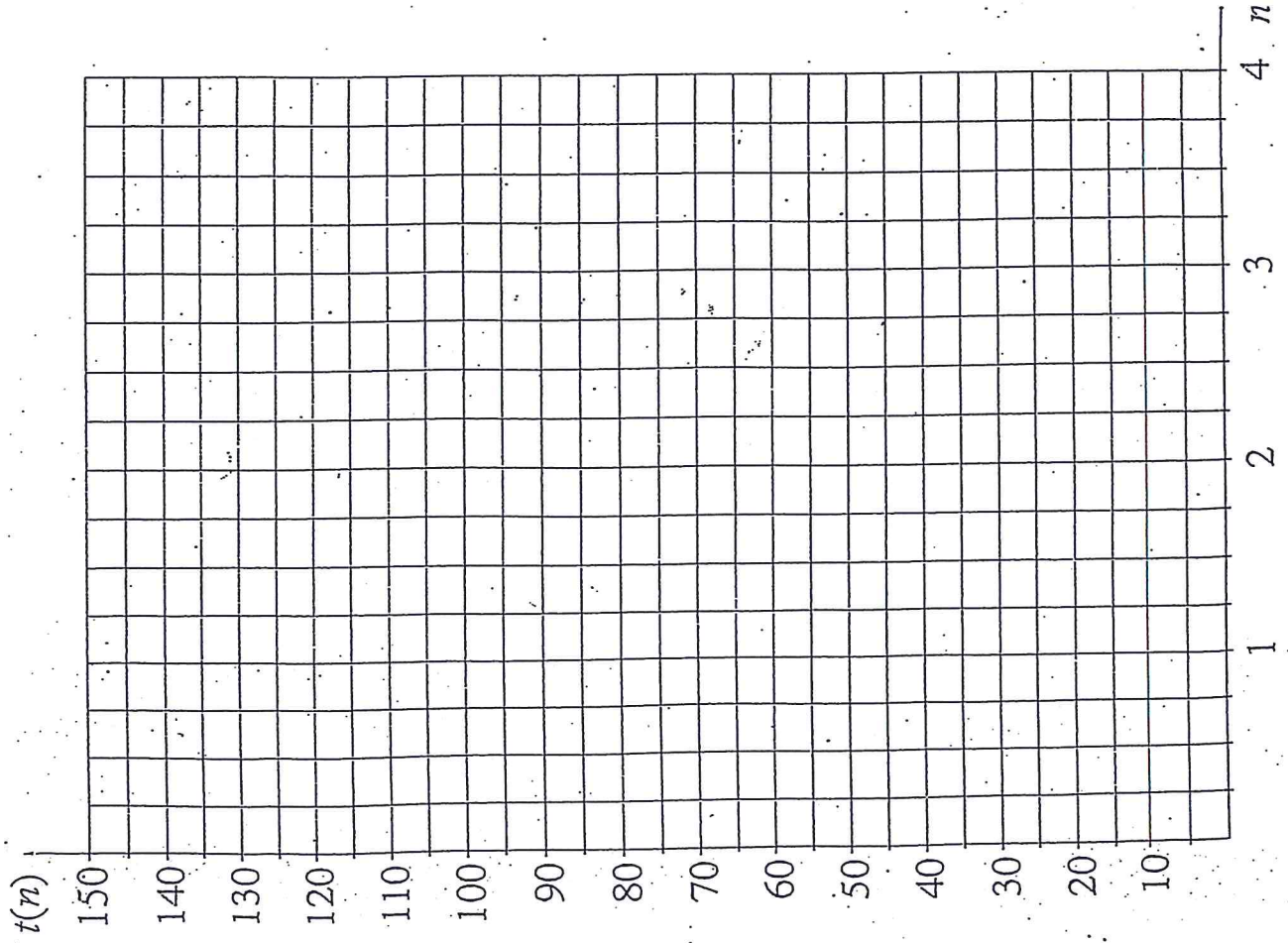
Sequence B	
n	$t(n)$
1	9
2	36
3	81
4	144
0	

C.)

Sequence C	
n	$t(n)$
1	6
2	12
3	24
4	48
0	

Which have constant growth?

5-83 atb Which Savings account would you want if n =years and $t(n)$ =money? Why?



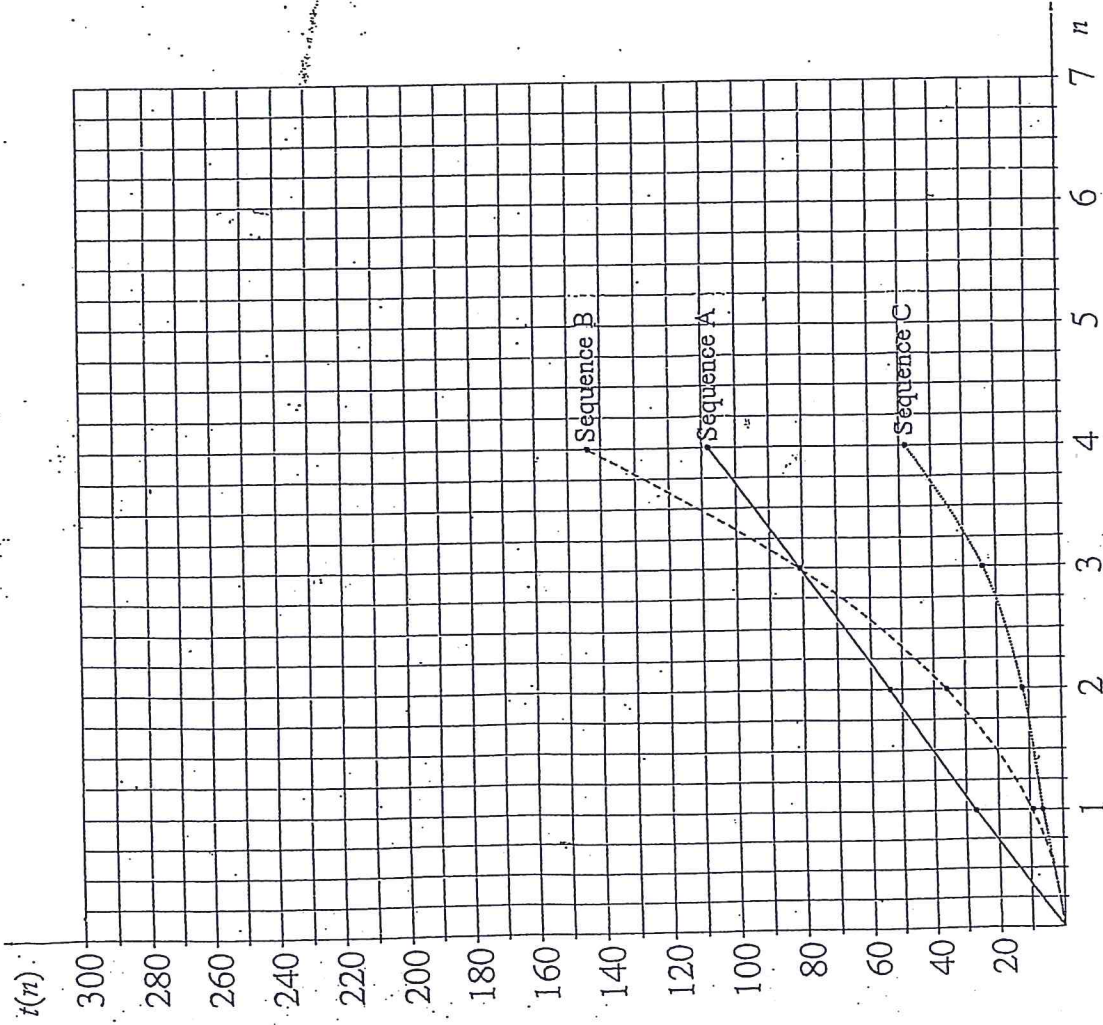
5-83

c.) Do you want to change to a different savings account? Why or why not?

5-84

a.) Will exponential growth eventually always contain more money than linear growth? Use slope triangle of your explanation.

b.) Sequence B is quadratic and Sequence C is exponential. How does their growth compare?



Sequence C	
n	t(n)
1	6
2	12
3	24
4	48
5	
6	
7	

Sequence B	
n	t(n)
1	9
2	36
3	81
4	144
5	225
6	324
7	441

Sequence A	
n	t(n)
1	27
2	54
3	81
4	108
5	
6	
7	