$f(x)=5(1.5)^x$

$g(x)=5(0.2)^x$

$p(x)=2(.97)^x+3$

Function starts at 1.5 with 50% decay

$h(x)=1.5(2)^x$

Function starts at 5 with 50% growth

x	-2	-1	0	1	2
y	125	25	5	1	0.2

$j(x)=5(1.15)^x$

Function starts at 5 with 80% decay

$k(x)=1.5(0.5)^x$

Function starts at 1.5 with 100% growth

x	-2	-1	0	1	2
y	-0.889	-1.33	-2	-3	-4.5

$m(x)=5(0.8)^x$

Function starts at 5 with 15% growth

x	-2	-1	0	1	2
y	3.78	4.348	5	5.75	6.6125

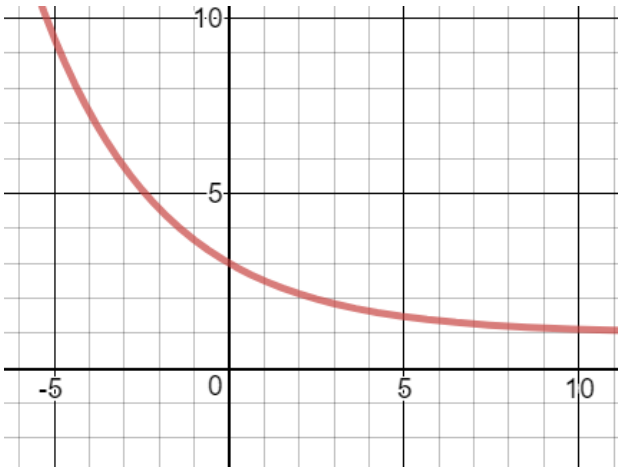
Function starts at 5 with 1.5% growth

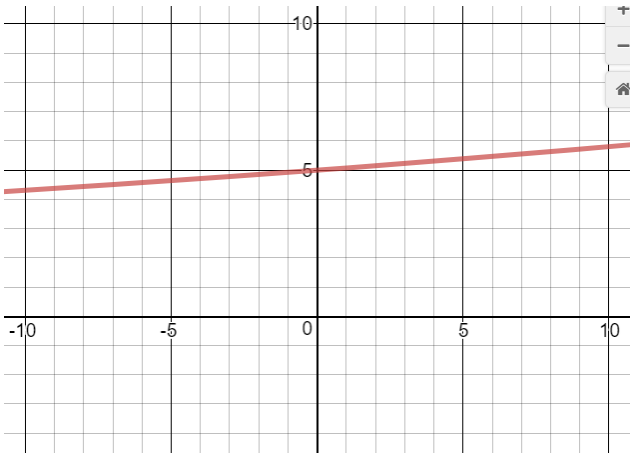
$n(x)=5(1.015)^x$

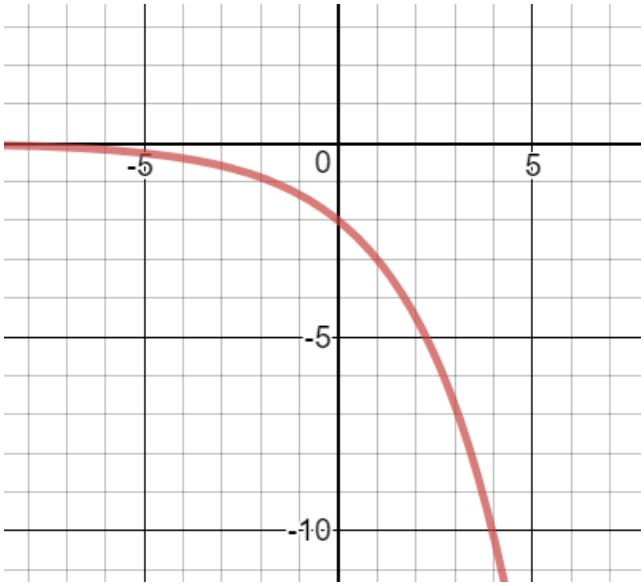
$q(x)=-2(1.5)^x$

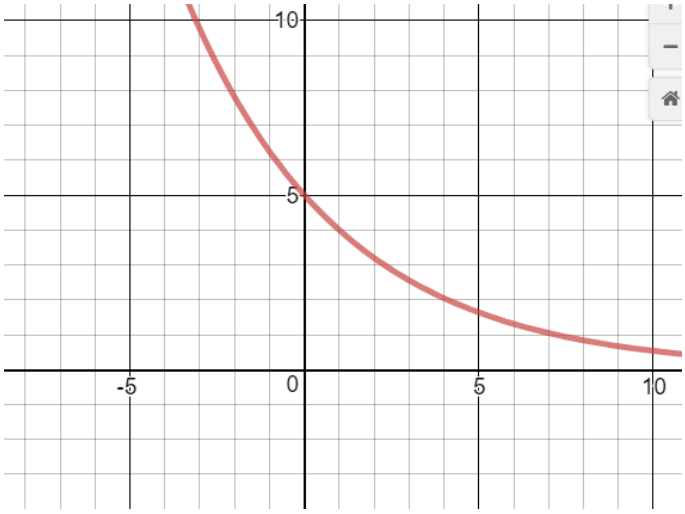
x	-2	-1	0	1	2
y	5.126	5.062	5	4.94	4.882

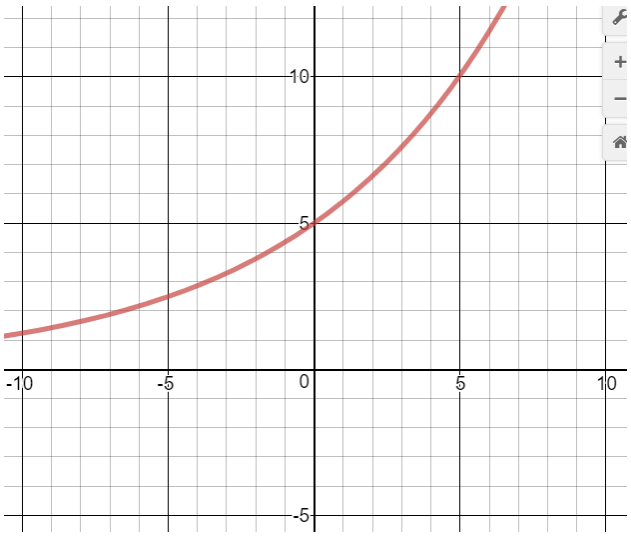
Function starts at 5 with 20% decay

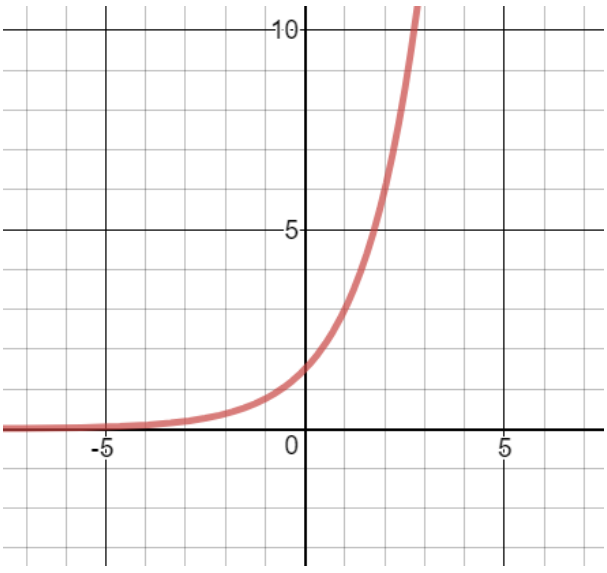

10
5
-5
0
5
10

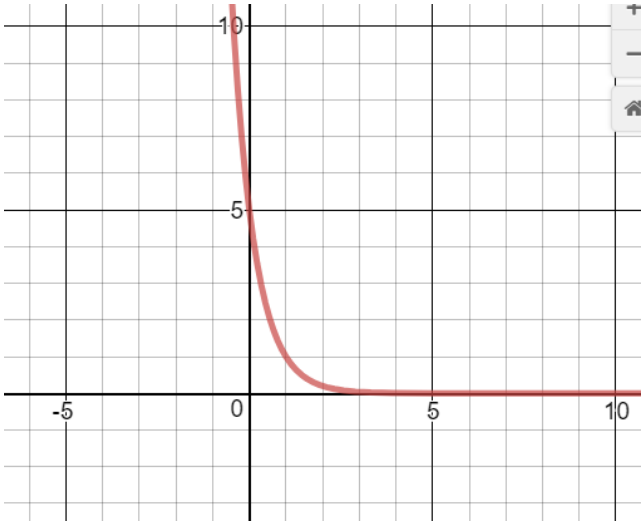

10
5
-10
-5
0
5
10

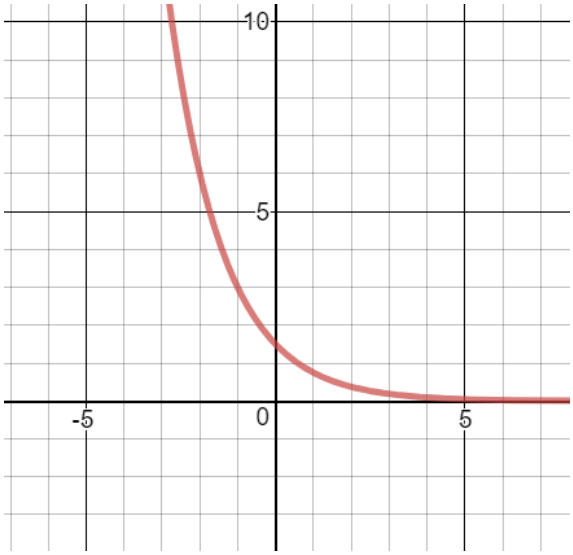

-5
0
5
-5
-10

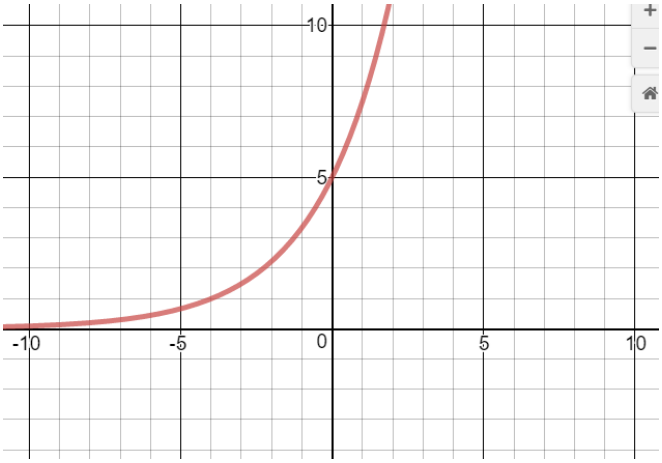

10
5
-5
0
5
10


10
5
-10
-5
0
5
10
-5


10
5
-5
0
5


10
5
-5
0
5
10


10
5
-5
0
5


10
5
-10
-5
0
5
10

$A(n) = 1.5*A(n-1);$ $A(1) = 7.5$	$A(n+1) = 0.2*A(n);$ $A(1) = 1$
$A_n = 2*A_{n-1};$ $A_1 = 5$	$A_n = A_{n-1}*1.15;$ $A_1 = 5.75$
$A_{n+1} = 2*A_n;$ $A_1 = 3$	$A(n) = A(n-1)*0.8;$ $A(1) = 4$
$A_n = 1.015*A_{n-1};$ $A_1 = 5.075$	$A_{n+1} = A_n*1.5;$ $A_1 = -3$