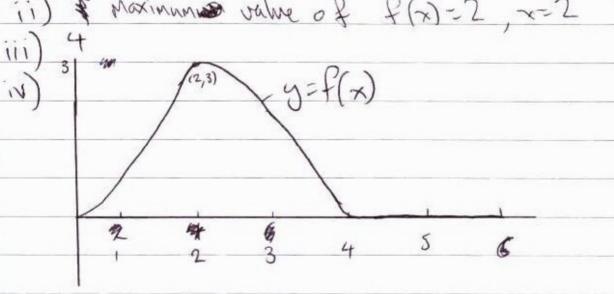
	Sample 3
Start here for Question Number: 9	
a) i) a = 500 r = 0.6 n = 240	
A, = 500 × 1-005'	
A2:500 x 1005 x 10052	
A3 = 500 × 1-25 × 12052 × 1-p53	
A240=500 x 1:05 x:05 x 1:05 240	
P = 500 × (1.005×1.0052 x 1.0053 x × 1.005240)	
a=1005 r=1005 n=240	
$S_n = a(r-1)$	
1	
=1.105x(1.105240-1) x 500	
1-005 - 1	
P= 232175.5498	
= 232175.55.	
P=282175-55 M=2000	
11)4A,=232175.55 × 1.005 - 1000 - M	
Az=(232175-55 ×1.005 - M) ×1.005 - M	
A3=(P × 1.005 - M) x(1.005 - M) x 1.005 - M	
-Px1.0053-41.0052-M	
An = Px1.005 -M1.005 - M1.005 +M1.005 - M	
= Px(1+1.005"+1.005"+1.005"+===+1.005"+===+1.005")-M	
a=1 ==1-005 N=M	
= 1/205 - 1 (1.005 - 1)	
= P × 1.005 - 1 = P × 1.005 - M	
L=Px 1.005 - M	

... An = (7-400 000) x 1.005 + 400 000

2) An = (P-400 000) × 1.005° + 400 000 (P-4000 00) × 1.005° + 400 000 = 0 In P-2000 000° \* In 400 000 = n

b) i) between x=0 and x=2, f(x) is increasing ii) & maximum value of f(x)=2, x=2



Additional writing space on back page.