Sample 2 Start here for Question Number: 9 (a) (i). 500 x [1,005 + 1,005 + 1,005 + ... +1] Now 1+ ... + 1,005 238.+ > 1,005 239 +1,005 240  $S_n = \frac{a(r^n-1)}{r-1}$  a = 1 r = 1.005 n = 240Sz40 = 2 1(1,005 240-1) And then. App 1.005 240\_1 x 500. = 232 175,55. ((i), (1) An= (P-400 000) x 1,005" + 400 000 Our per month r= 140,005 DA 1,005. An = 2 (2). Sn = = 2 (a+l) 0 = 14 nonn.

(b). y = f(x). OE x & f(0) = 0.

(i) from x=2

f(x). In Facreos my

(77)

(iii) f(6) = f'(a)

Jf'(x) = 36

fort= 1

(iv). y = f(x). A 4

y = f

 $\frac{1}{2} \int_{0}^{2} y = f(x).$   $\frac{1}{2} \int_{0}^{2} y = f(x).$ 

Additional writing space on back page.