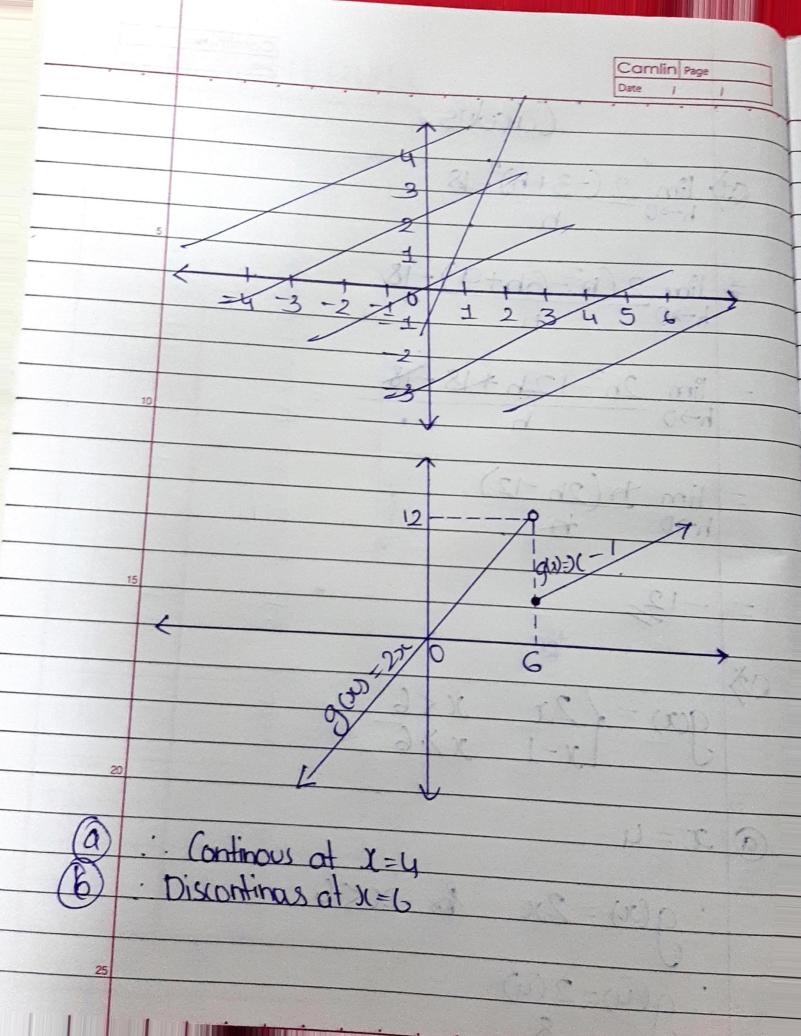
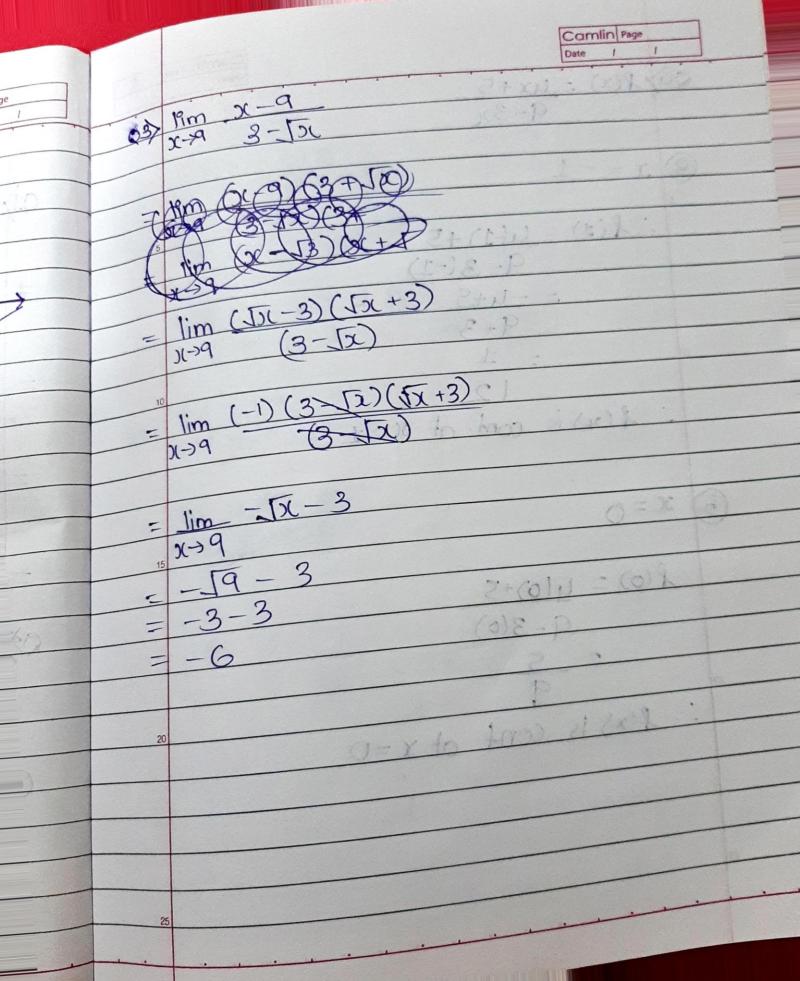
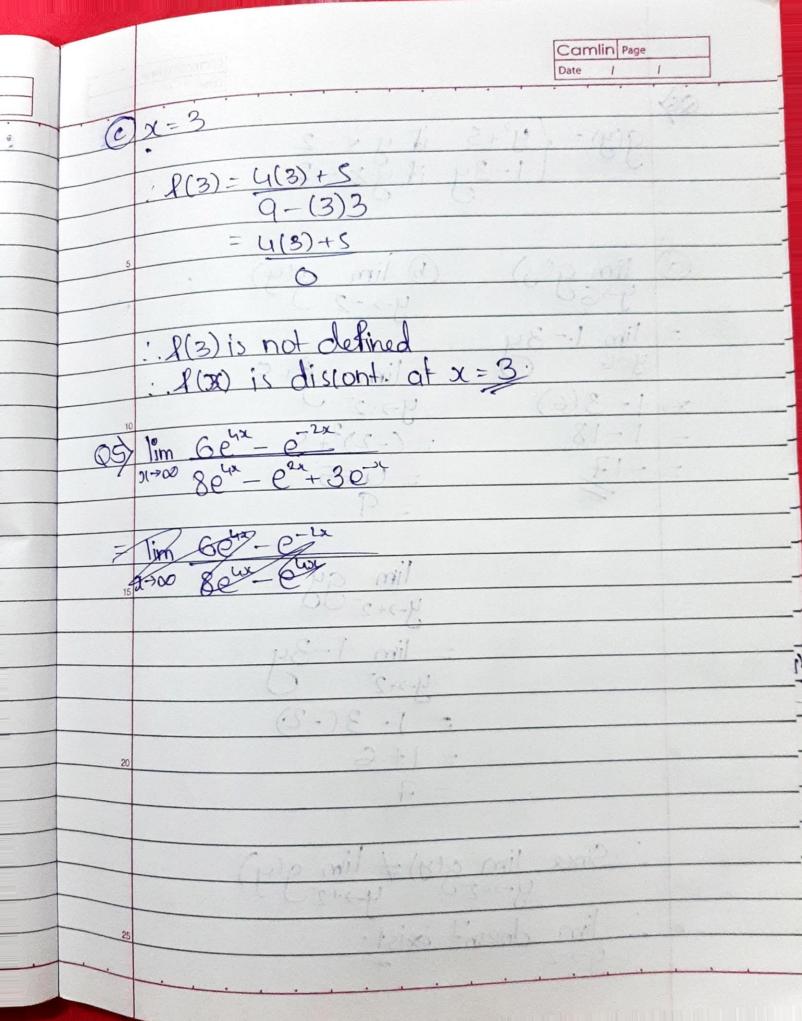
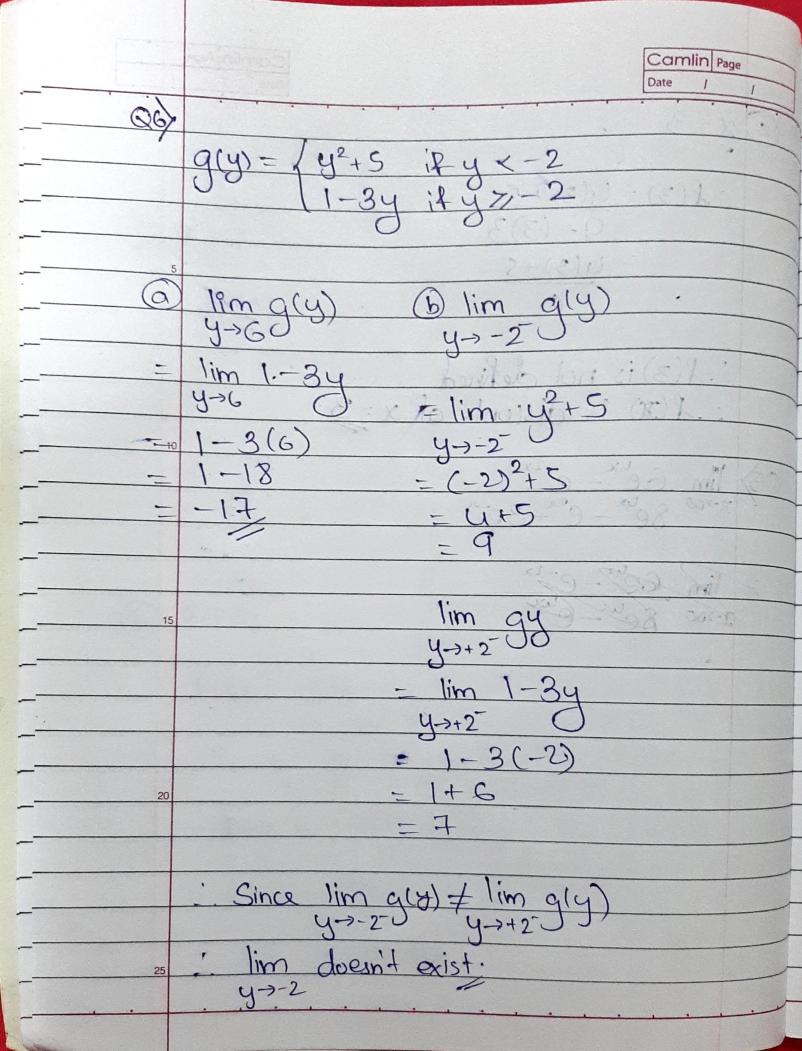
Camlin Page Calculus 01) lim 2 (-3+h)2-18 =  $\lim_{h\to 0} 2(h^2-6h+a)-18$ 1°m 2h²-12h +18-78 = lim to (2h-12) -15 -12 a x = 4 g(x) = 2x 600 DCK 6 million 25 : g(y)=2(y)





To Security 11	
Quy $f(x) = \frac{Camlin Page}{Q-3x}$	P. CVAT
3 = -1	Cx
$\frac{1}{4(1)} = \frac{4(1)}{45}$ $\frac{9-3(-1)}{4}$	5
9+3	7
Low is cont. at sc=1	10
(b) x=0	31.
· 8(0) = 4(0)+5	15
20 5 5	
: fixs is conf. at x=0	
25	





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07) P(t) = (4+2-t) (+3-8+2+12)

-(ut2-f.d(+3-8+2+12) + (+3-8+2+12)

 $\frac{d}{dt} = (4t^2 - t)(3t^2 - 16t) + (4^3 - 8t^3 + 12)(8t - 1)$ 

 $=124^{4}-644^{3}-34^{3}+164^{2}+84^{4}-644^{3}+365$ 

 $-4^{3}+8t^{2}-12$   $=20t^{4}-132t^{3}+24t^{2}+96t-12$ 

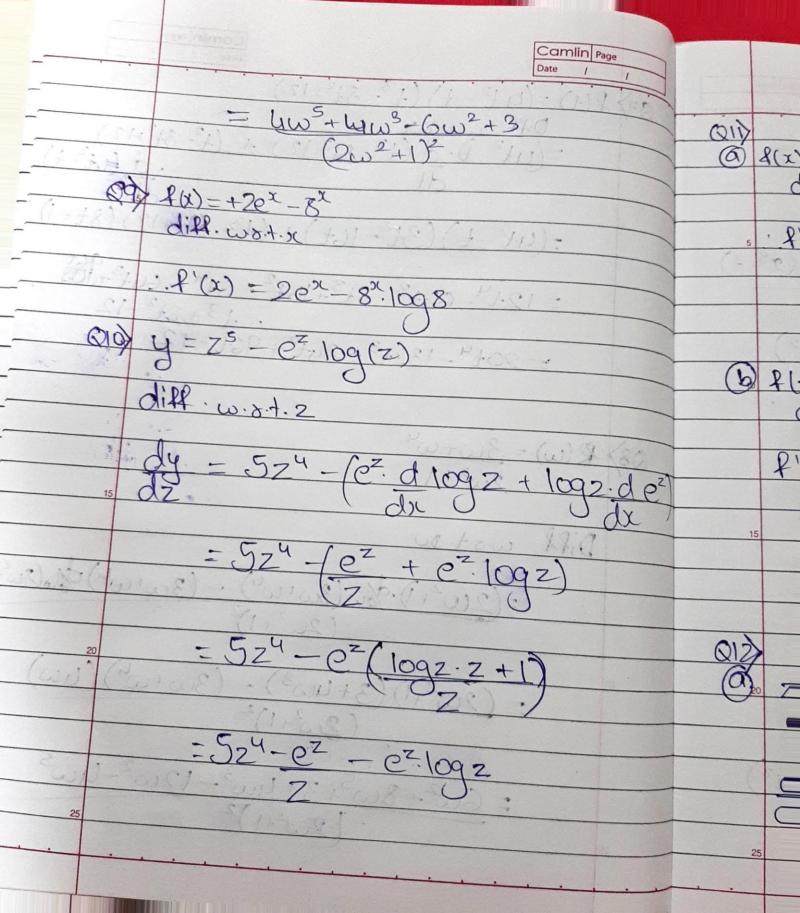
08) R(w) = 3w+w4

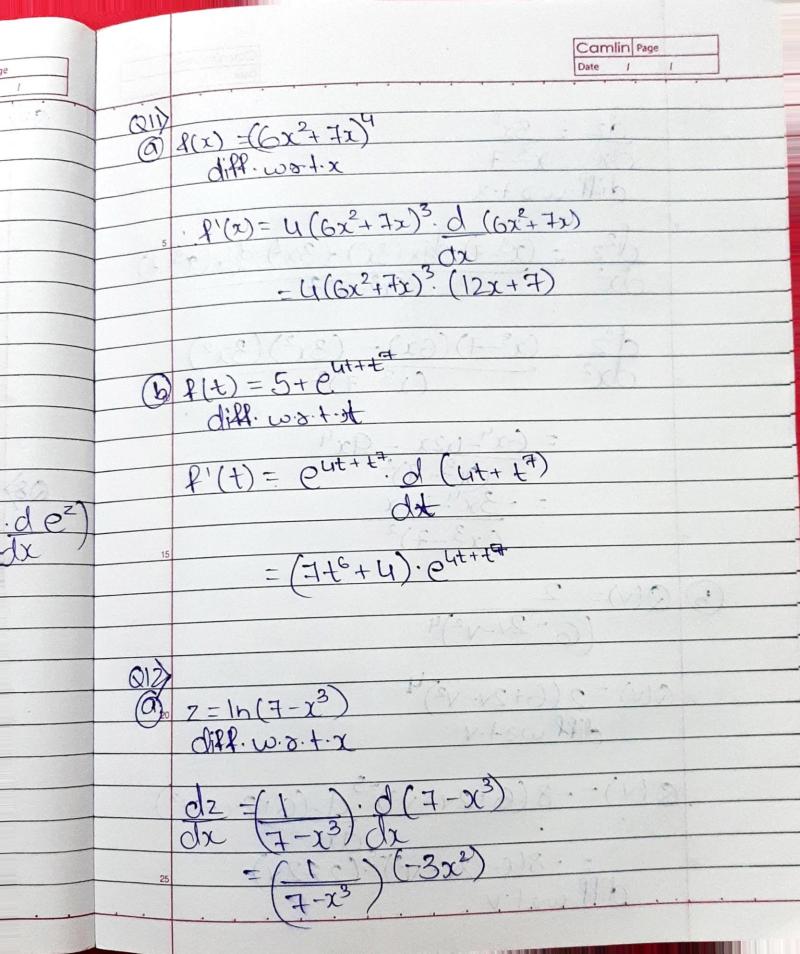
Diff wort on

 $= (2\omega^{2} + 1) \cdot 9(\omega(3\omega + \omega^{4}) - (3\omega + \omega^{4}) \cdot 9(\omega(2\omega^{4}))$   $(2\omega^{2} + 1)^{2}$ 

 $=(2\omega^2+1)(3+4\omega^3)-(3\omega+\omega^4)(4\omega)$  $(2\omega^2+1)^2$ 

 $= \frac{6\omega^2 + 8\omega^5 + 3 + 4\omega^3 - 12\omega^2 - 4\omega^5}{\left(2\omega^2 + 1\right)^2}$ 





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$\frac{dz-3x^2}{dx}$ $\frac{dz-3x^2}{dx}$	
$\frac{d^{2}z - (x^{3} - 7) \cdot dx(3x^{2}) + (3x^{2}) dx(x^{3} - 7)}{dx^{2}}$	5
$\frac{d^2z - (x^3 - 7)(6x) - (3x^2)(3x^2)}{dx^2}$	
$= \frac{6x^{4} - u2x - 9x^{4}}{9x^{3} - 4y^{2}}$ $= -3x^{4} - u2x$	(C)
$(x^{3}-7)^{2}$ $(x^{3}-7)^{2}$ $(x^{3}-7)^{2}$	15
$(6+24-4^{2})^{4}$ $20 Q(1) = 2(6+24-4^{2})^{4}$ $diff \cdot w + 3+4$	
$O'(V) = -8(6+2V-V^2)^{-5}d(G+2V-V^2)$	
$\frac{25}{3} = -8(6+2y-y^2)^{-5}(2-2y)$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$	

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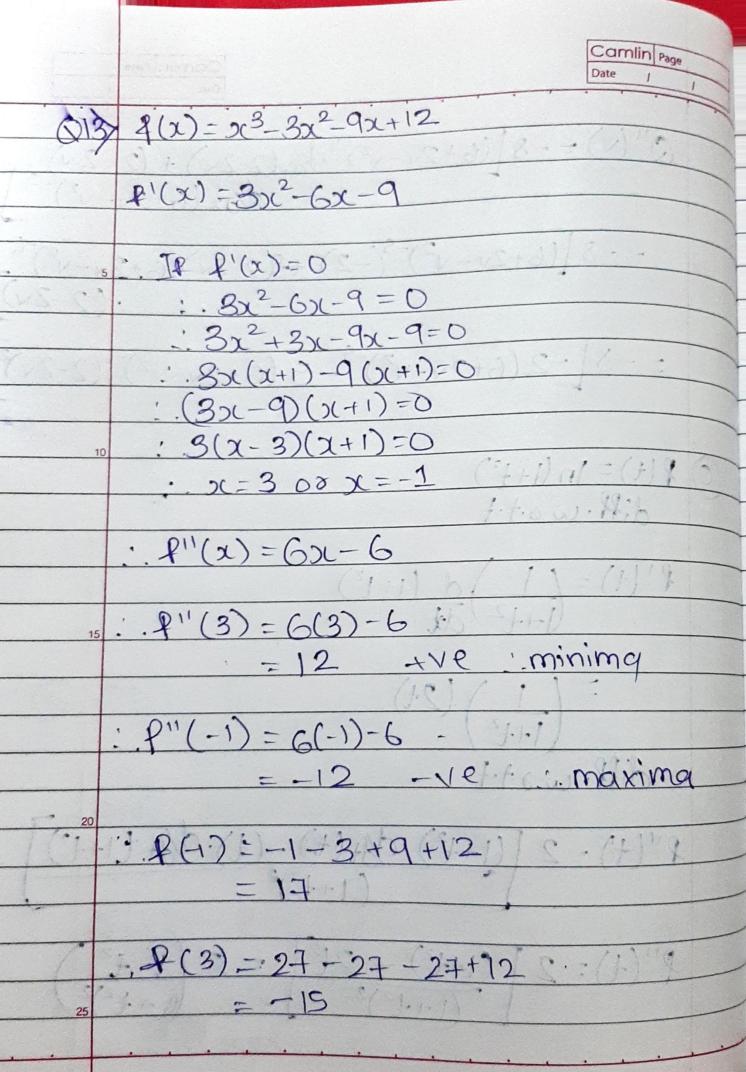
$$O''(v) = -8[(6+2v-v^2)^{-5}d/3v(2-2v) + (2-2v) - d/3v(6+2v-v^2)^{-5}]$$

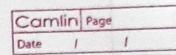
$$= -8 \left[ (6+2v-v^2)^{-5}(-2) + 9(2-2v)(6+2v-v^2)^{-6} - (2-2v) \right]$$

$$\frac{f'(t) = 1}{1+t^2} \frac{d}{dt} \left(1+t^2\right)$$

$$=\frac{1}{1+t^2}$$
 (2t)

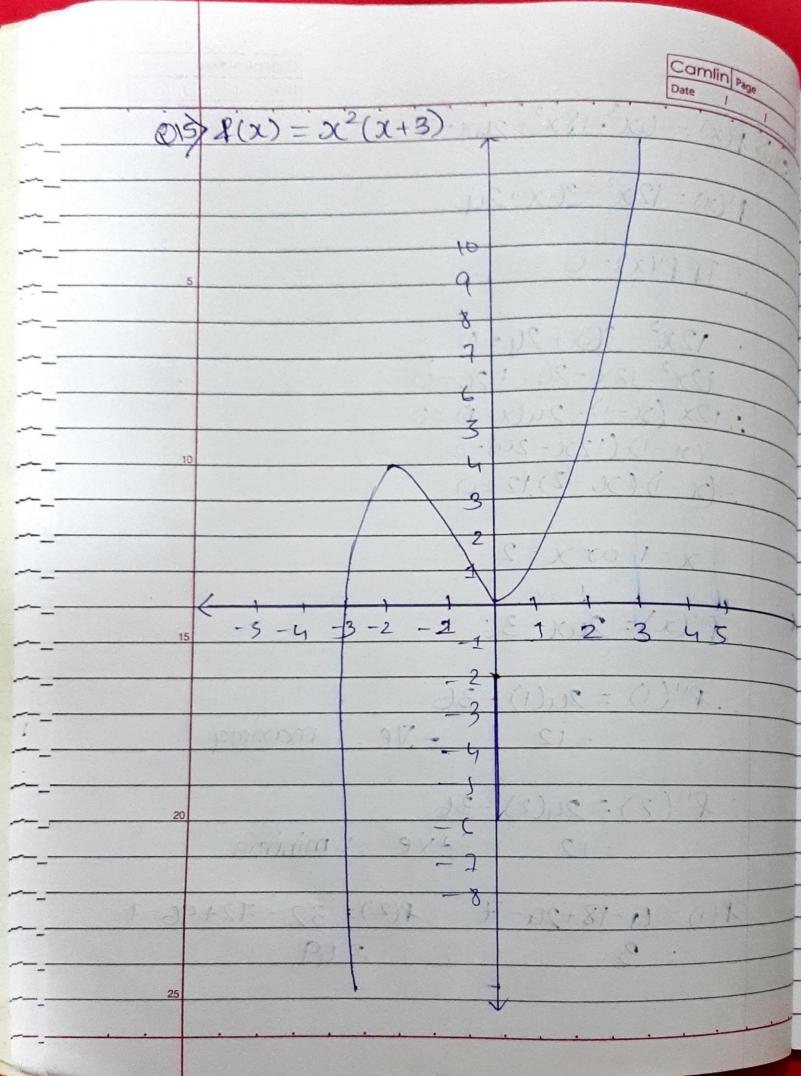
$$P''(t) = 2 \left[ (1+t^2) - 2t^2 \right] = 2 \left[ (1-t^2)^2 \right]$$





$$12x^2 - 36x + 2y = 0$$

$$A(1) = 4 - 18 + 24 - 7$$
  $P(2) = 32 - 72 + 96 - 7$   
= 49



1 (x) - (x) 4

0 -(1) 1 41 1

3V+ 0=(x)"1:

 $2(x)=x^{2}(x+3)$ = $x^{3}+3x^{2}$ 

5 P'(x)=322+6x

If f'(x)=0

 $3x^{2}+6x=0$  $x^{2}+3x=0$ 

 $\chi(\chi+2)=0$ 

x=0 00 DC=1-21

1"(x) =6x + 6

P"(0)=6 +ve : mining

15 2"(-2)=-6 -ve: maxima

20

