4-7 exercis, 01-8=160 P=axb a= 100tb P= ax (a-106) bz a-100 4/1000 Using absolute bo hart this y values first derivate test, f'(首) < () for X < 100 and f(4)70 for x76. 6 15 511 9. V= 111- Y21 V= (Cx+2)-x2 1/= (2x-1)(x2-x-2) V(-1)=0 v(w= Dive v(2) = 225 the my due for C=2,-1 15 7.25.

12 open top. same Cot 4 comps fuz les volume x2. (3-x)·2 V= 2(-x2+2x(3-x)) domm 15 (0,3) ((0)=0) V'(x) = 0when x = 0, 2v(2); 2 13, V3) = 0 1,5m A pontxxx ONE at O, 0001 mit to 0 -1000

Y=1500

0= J(x-3)2+ y2 (43)2+x ¥= 2.5 1/= 525 UA = 384

39 (02pm D= Jax-bx)2 + (ayby)2 bx=200 (15x-15) + (-20) phason 5625-+2-4450+ +225 @0,0 Every joveny f'(x)= 1250x=450 30 567542-454 4775 (b) 0, -4 (Dasp)-20 13 458 K ay=0 ax=15+炎 Closest at by=-39 2:21:36 5×=0 62. C = (100-x)(x600x)+800) C'= -10x-800+1000-lox C= 100-20+ X=10 f(100) = 800x 40 f(100) = 000x 40 f(10) is the low maximes