Homework Prove that there a, neighborhoods VE Va and VE V(b) UNVEVX U = (1,3) & V(5) V = [4,5] @ 0(b) = [1,3] [4,5] => 3 UE VCO omd VE V(b)

So that

UNV = Ø

10. Let A = (0,1) 1) Q. Show that inf A = 0, Sup A = 1, int A = p and cl A = [0,1] ins A = 0 because: 0 - a , tacA => 0 is a lower bound for A Sup A = 1 pecanse 1 > 0, to e A => 1 is an upper bound for int A = Ø becouse: X @ R / 7 E > 0: (A = 1 xeR Ve V(x)





