Let P' be a continuous function; it is continous un set SCRn and 'S' is chosed & bounded (compact set). the problem, Then min Acou has a soln. SLES 3 x* ES (there could be muliple) 30 $P(X^*) = MPP(X)$ (onveyent PS-15 Comparts Chosed · contra dechon Contra dichon:

Let $\overline{Z} \nsubseteq S$.

The symbolis open soul $\overline{Z} = \overline{Z} =$ 5.+ all 2 E N/3 (3) here no point in 5

4 2 Wo pen ball outside + 2 Gren Evers + 2 2 Gren ES at some time six. (nfmur) 52 2 N S => MF F(X) Which has (+(1),+(2), e1,e2,e3 1) Every bounded. Set has a limit Bound



