3F20 Suppose V and W are subsets of V with  $V \subset W$ . Prove that  $W \subset V^2$ .

Proof

Let y ∈ w°. ⇒ y ∈ V' and y (w) = 0 for all w ∈ W

Given any uf U, uf W (since vew) (by definition) of wo

Thus ye can for all uf U (by definition of w")

Note that;

V= g & e V : Ø (u) = O for all u }

Thus ye & J (by definition of U)

⇒ w° c v°