(E, x) (B, p(x))

```
9 & it are with last with g(x1=x
                                   & id(x)=>
     a) 90 id.
                     My
 COR Let 20,20: E\rightarrow C s. f. 20,20: 20,20: 20,20 for some x\in E.
            20,900 (E, 20(4))
Le =1 20=9,
           (E, x) = (B, p(x))
Apply previous to go 21.
         p<sup>-</sup> (50) -> homeo (E)
e; +> p;
      where p; (e;)= e. & pop;=1.
     Show that the large is a subgroup a.
  comp Need to show p, of 2 & G.
        Po (Prop) = (Pofi) ofz = Pofz = p
     Need to find e3c p-1(50) 5.6
       P, 0/2 (e, ) = eo => P, 0/2 = Po € (
           e> = p?(e1).
     To we this need to know that pie a.
     By (2) uc knew of is a honeo.
```

Also let e_{-2} : $P_{2}(e_{0})$. My $P_{-2}(e_{-2}) = P_{2}(e_{-2})$ Ry lemm P_{-2} : P_{2}^{-1} =) $P_{2}^{-1} \in G$.

(4) Show that 6 is a dade action.

UCD is Every coverd if p-1/41: 11 Vd where Plus is a homeo to U.

Pick ke E, assure 4 is an every covered and of part in B. Let V be the compant of p-1(a) that contents x. Ply is injective.

Let Pieb. Show if Pi(U) NV +0

=) Pi=id.

(et ye Pi(V) NV. The p(Pi(y)) = P(y)

>) Pi(y)=y since Plu is injective

=) Pi=id.

 $\frac{E}{4}$ $\frac{E}{4}$ $\frac{E}{4}$ $\frac{E}{4}$

To show \$ 13 well defined & a sijection need to show that q(x) = p(y).

=) $\exists P, CG$ v, h P, (x1=y)=) P(y) = P(P, (x)) = (PoP, Cx)= P(x). = P(x). $\exists P, E \Rightarrow E$ v, h P, (x=y) & P = P, P. Let P = P, CG.

2 /)