November 6

Glving duta: EU21 com for H.

· E = Ll Eq, when Eq is din=16 v.s.

· M: n-1 (U2) = U2 Rt one bijections

92p: U22Up - 1 GL (h, ih) 5.t.

 $\mathcal{A}_{\alpha} \circ \mathcal{A}_{\beta}^{-1}(\gamma, \sigma) = (\gamma, g_{\alpha\beta}(\gamma) \sigma).$

groß: E has the unique str. of a v.J. on M.

If (Shetch) find charts for E. For pett let Us contain p. Let (Y, t) be a whart for H containing p. 5.6.

Vp CU.

7°5=14.

5.t.

We call a mop satisfying (a) or (a=)
a rough section (so, not necessarily someouth.) The sypress of sections is the closed set $\frac{5}{7}$ per $\frac{1}{5}$ $\frac{5}{1}$ $\frac{1}{7}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{7}$ $\frac{1}{5}$ $\frac{1}{7}$ $\frac{1}{7}$ The zero seetour 15 $O: \mathcal{H} \longrightarrow \mathcal{E}_{p}$ A section of the trural v.s. 5 (H a smooth my $5: M \longrightarrow \mathbb{R}^{k}$.