~~Cor 3.8~~ **Cor 3.9** Apply Thm 3.8, taking $f = id$

(c) **Prop 3.11** ~~$p_i \to p$~~ $\to$ in X

~~Cor 3.~~

Given open $U \ni p$

Then $U \cap S$ open in S $\Rightarrow$ $\exists N$ s.t. $\forall i \geq N$, $p_i \in U \cap S$ $\square$

~~(d)~~ (d) obvs (e), (f) use the obvs bases

~~Let X be a top space, S a subsp~~

Ex 3.13 $\iota_S : S \hookrightarrow X$ ~~as~~ $\operatorname{Im}(\iota_S) = S$ is cts with cts inverse so clear.

~~$F: \mathbb{R} \to \mathbb{R}^2$ injective cts map $F(s) = (s, s^2)$~~