| Lee 2  |              |
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| $\frac{Def}{}$ let $x$ collection of sets $\leq M$   |              |
| Einstely Non CER. Mad & Mond CL 80 U intersects  |              |
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| DEFI let W tob cb is boursonbrot if A abou conor X of W Maril  |              |
| DI & sorcan of X is a can X.   |              |
| D) & solcan & X is a com X   |              |
| Defl A cover X is open if * WEX M is open  |              |
| The Topological Manifolds are para compact   |              |
| rouse weign cothe  |              |
| DOD M is called locally capt of the M and U None   | )            |
|  |              |
| emal Top med 1000114 corper  |              |
| 131 Locally cuclidean × 12° is locally compres   |              |
| Early Top med - U mod & P & homeo U - DIR"   |              |
| Evandy that xbew 3 1 word x varies b. 1 - o day see 15.  |              |
| Lemmel A second ctol, loc compact, have docte and admits   |              |
| an exhausion by compact sets   |              |
| changes a compact sets kn so Ukn = M   |              |
| PRIO 3 bais of procompact gen sets. Since M is loc orbit   | •            |
| E 2m cto = 3 combay may PRECON SONS (1/4)  | <u>;-</u> 1, |
| ides: DCM 2ND OHH = 2 MH bas Twil be DC (e)  |              |
| let mis iden: PEM. 2nd CHO => 3 CHO bors Twil let PEVS see continued of Doc corporate in a proof Choose bois elt duses so U we ? V i Since T compet choose think was,, we to come? |              |
| in 11 prent Chapse bon's elt duses so use 2 v. Since   |              |
| V compet chance finite we, ,, we to comer to   |              |

There we precompact as the; a the compact as the compact (chances works to consect) take all (wix) (countries varion of finite) D 31 Define the exhaustran by compact sens. Consider Competing como