L 17-4 Theorem def Continuity with bounded

Friday, July 19, 2024 let (X,d) be a metric space DefA; $C_{R}(X,d) = \{f: X \rightarrow R \mid Sup(f(x)) \land +\infty \}$ functions of an X. may define $d_{\infty}(f,g) := Sup(f_{\infty}) - y_{\infty})$ then do & a metric Thearen (Co (XA), do (Co)) il a complete metric space

Carallery: $C([a,b]) = C_R([a,b])$

by theoren ([[a,b]) Is complete

Bam (Ya) = ([[-S+to, to +8])

is also complete.