Def. Metrik:
$$d(x,y)$$
, $x,y \in M$ = $d: M \times M \rightarrow (0,\infty)$

(i) $d(x,y) = 0 \iff x = y$ pos. def

(ii) $d(x,y) = d(y,x)$, symm.

(iii) $d(x,y) + d(y,z) \ge d(y,z)$, Dreiecksungl.

Sate: allo(auchy folgen Konv. \iff vollstandig on M.R.

(R, $d(x,y)$)

(R, $d(x,y)$)

 $C_{K} \rightarrow sup$
 $C_$

lim sup xn = a = 4 7 n+1 -0,1,-0,1 .. - -