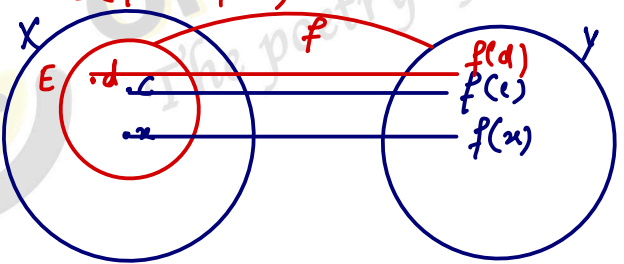
Continuity of a function

Let (X, d_1) and (Y, d_2) be metric spaces. $E \subseteq X$ and $f: E \to Y$ be a function. then f is said to be Continous at $c \in E$ if

for $\epsilon > 0$ $\exists$ $\delta > 0$ s.t.

$d_2(f(x), f(c)) < \epsilon$ when $d_1(x, c) < \delta$



f is Continous at every point of E then f is said to be Continous function on E.