map 1.3 Continuity & limit

Thom 1. I a cont and Visopen f. R → R is cont at a ∈ R is Then Flux is open: HE>0 38>0 Ax 1x-01<8 => 1f(x)-f(0) < E proof: S = f(u) is open VE>0 ∃8>0 B(8,00) C \(\overline{\text{H}} \(\overline{\text{B}} \(\overline{\text{E}} \(\overline{\text{B}} \(\overline{\text{E}} \(\overline{\text{B}} \(\overline{\text{E}} \(\overline{\text{B}} \(\overline{\text{E}} \ Which is Dame as bre SCSint Proof: £ acs > fca eV => QEVint_> => 36>0: B(6, fa) CU => f(B(E, f(a)))CS or c+ I(B(E, I(W)) Picture of Continuity 30 38 x0 1. B(8, W) CS On Rh -> IRK no aggint X→0 is same as |x-01->0 Which is The same as ナ·(x) → by inequality 1.3 max { 1x, -a,1, ..., | x, = a,1} ->0 (Xi-ail -> 0 forall i=1...n So it is sufficient to 1.3 Study functions fire >R

