cont at & EA f: A - IR 15th September 2020 Continuous function Del -1 E-s del 511 the flat = f(c) PIA-IR is do at CEA ((v,(0)) A) Hay (n) in A" € NE(((c) ry (f(a)) conveyes to f(c) see orderia for L to be hunit at a (x)-c, n, tc P (n) -1-Plu 5.1.4 Discontinuity orderion Divergence of a low property LA A EIR & C:A - IR & CEA Then g is disch at c 'g & a seg (m) in A much but (Mh) is but f(Mh) does not converte f(c) Del 5.1.5 Continuity on a set Let fix - IR; DEA of issts in on Big each point of B Examples 5:14 @ Constant function is cts. on IR Let f(x) = b & x + IR (f: IR - IR) f is on mir Let CEIR be arbitrary 14 f(n) = b & f(c) = b : nt ((n) = (cc) the wich at c As CEIR is arbitrary: { is charle @ Identity function let g: IR -IR be g(n1=x, x FIR Then gir of (on IR) Les CEIR be arbitry Urg(x) = Ur(x) = c & g(c) = c .. Ut g(x) = g(c) I gig Is at c EIR

