1: tet un exame - Clark 5-4-4 - 2021/22 Resturas 3. (a) Terrenz le Rolle: Syx f: La, S) -> IR regular (Com ACb) (2 hays) a tal que \$(a)=\$(b). Entir JCEJa, bL: 1'(c)=0. (b) of rights am [9,5]; Fin:= f(n) - \frac{f(b)-f(a)}{L} \times, n \in [a,5]. is Ferregular um (a,b), i.e., continue um [a,b] e difuenciable en Ja, 6 [: Com of ten une proprietely a goodgue poli-(10 ponts) while tambées, entré a mens se passe com a diferest for define F. (x) F'(n)=1'(n)-1(1)-1(x), nEJa,6(. ii. Fa)=F(b) = 1(a) - 1(b)-1(a) a = 1(b) - 1(b)-1(a) 6 6) \$(a) - 1(b) = \$(b) - 1(c) (x - b) (2 kongu) () f(a)-f(b) =-f(b)+f(a) () 0=0, proposings outsting, Logs o menus meet a F(a)=F(b). iii. Usand Fam ve d f m terens & Polle (fi for, por i e ii, Fobedus & hijótus done turema), (10 points) conduin que fc=Je, 1(: f'(c)=0. 1 = pr (*) f'(c) - f(s)-f(x) = 0 1'(c) = 1(3)-1(a)