Геореша окритерии моноточности megn: Myomo f(x) onpregenena ugugrap-a ma (a: 6), morga 1) f(x) 1 ma (a, b) => tx e(a; b) 1'(x)>0 2) f(x) \ ma (a,b) => \ \ \ x \in (a,b) \ \ \ (x) < 0 3) f(x) = c nocmosunas na (a, b) => \f(a, b) f(x) = 0 D-bo: 1) Heroxogumero. 1) f(x) ma (a, b) => fxe(a, b) x12 x2 => f(x1) < f(x2) $4'(x_0) = \lim_{x \to x \to 0} \underbrace{f(x) - f(x_0)}_{x \to x \to 0} \left[\begin{array}{c} x_0 < x_1 \tau_0 \ x - x_0 > 0 \end{array} \right] \Rightarrow \lim_{x \to x_0 \to 0} \underbrace{f(x) - f(x_0)}_{x \to x_0 \to 0} \ge 0, f'(x_0) \ge 0 \left(\forall x \in (q, b) \right)$ 4(x0) < f(x), TO f(x) + (x0)>0 2) fox) \ ha (9,8) => fx, xe(0,6) x1< x2 => f(x1)>f(x2) $4'(x_0) = \lim_{x \to x_0} \frac{f(x) - f(x_0)}{x - x_0} \left[\begin{array}{c} x_0 < x \Rightarrow x - x_0 > 0 \\ f(x_0) > f(x) \Rightarrow f(x) - f(x_0) < 0 \end{array} \right] \Rightarrow \lim_{x \to x_0} \frac{f(x) - f(x_0)}{x - x_0} \le 0 \Rightarrow f(x_0) \le 0 \left(\forall x \in (a, b) \right)$ 3) c'= lim c-c = 0 [Docmamornooms. 1) \(\times (a; b) \(\frac{1}{x} \) \(\times 0 \) Bozoccelu \(\times 1, \times 2 \) \(\alpha \times \x 1 \le \times 2 \) no m. Mayrannea 3c ∈ (a, b) f(xa) -f(x1) = f(c) (xa-x1) ≥ 0 Yx1, x2 = (a, b) X12 X2 => f(x1) < f(x2) m.e f(x) Tra(a,6) 2) Vxc(a, b) 1(x)≤0 ∀x1, x2 a<x1<x2< 6 no 7. Nonpa. $\exists c \in (a, b)$ $f(x_2) - f(x_3) = f'(c)(x_2 - x_1) \leq 0$, $f(x_1) > f(x_2) \Rightarrow f(x_1) \downarrow$ 3) $\forall x \ 4'(x)=0$, $x_0 \in (a,b)$ $c=f(x_0) \ \forall x \in (a,b)$ no m. Narpannea $f(x) - f(x_0) = f'(c)(x - x_0) = 0$ $f(x) \forall x \in (a, b)$ $f(x) = f(x_0) = C$.