Oze 2.11.

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Mechenia 2.2.1. Mechenia nho Egricomo Yarregi. Nochigobricomo se monce mamu goose histeux makeus. Dobegenna. Vi Trungemuno cynhomubne, moomo rescare icreje maka nocuigobricmo 1x43, 40 lim en -a, lim en -b, neurous a +b, i rexaé gua buznarenocmi alb. Hexain Ge-6-a. Trogi Ver (a) 1 Ver (b) = \$ (2.1) a-a a a+a 6-a 6 8+a Угідно з Означеннями границі маємо (3 NI) (4n 7 Ne) h | Xn-a 1 Lae }, (3 N2) (4n 7 N2) {Kn-6 | Lae } Hexate N= max {Ne, Ne 3. Thogique (4n TN) 1/2n-a/2ce 3 i h 1xn-6/4 Cez, moomo enemeroren hoarigobroami (xn) 3 nauchance, dinqueenen big N, ognocacro naverciemo go Var(a) to Use (6), a se semoscrendo 3 ornegy na crobbig. Hour (2.1). Ompenerara cyneperations gologues ego a= 6 s.

Mechenia 2. 2. 2. Tho Quercesicons zoincros navigo bracmi. Boincrea nouigobriens oduencena. Dobegenna. Villexatu lim xn = a: Brigno z oznar. harrey nocuigobrocmi, que &=1 macuo (FNEW) (Yn TN) 1/Xn-a/2/3, moomo (4,71) (a-14x, 4 a+13. True enemo Met max {be,1, 1221, ..., 1x,1, 1a-11, la+113. Omne, (Vn ew) { Xn1 = 113. 1

Megrena 6. 2. 1. Meorena Jana. Hexati que y f(x): P) неперервка на відрізку [а, в]; 2) guopepenyitiobra na interbani (a, B); 3) f(a)-f(b) Mogi icrye morka & E (E, B) maka, uso f(E)=0. Dobegenne Mckinske do-e y=f(x) reneperbra na відр. Га, в), то з огладу на теор. Ваберинграсса bona goranae na istorny bignizky nativirus ma naturencero grarens. Hexate U=max flx), m=min flx). Mogi (x e ca, b]) { m = f(x) = Uf. Morcuebi gba bunagner: m=11 ma mell. Dernekens repunse Buragon. Mogi (4x e [a, 6]) ff(x)=m=U-const}. 36igcu(xx [q, 6]) (f(x)=03. Umnce, za & eloscha bestie dyso-leny morny 3 ixtepbany (a,6). Tomeseuro grepute bunagok. Ochinokee f(a) = f(b), mo cora Jogne zi znarens m ra Il op-le gocarae y axitect morgi e, e (a, E). Omnie, morka Ex E morkoro excorpeneguey go-i

y=f(x). Many zomesy na guopepenezitebrecoto
op-i y=f(x) b morgi ex ma zrisko z
mecheneoso depuna ompennyeno, no f(ke) =01

Megenea 6.2.2. Meoperea larpasera. Mexate one ye f(x): 1) seenepepbra ra bighizky [a, 6]; 2) guodepenyituobra na interbani (a, b). Mogi icheje morka (e e (a,6) maka, ujo f(B)-f(a)= 3'(E) (B-a) (6.1) Dobegenne. P Toznueneuro na bign. [a, B] opyrkajio F(x) = g(x) - f(a) - f(b) - f(a) (x-a)Baybarcenno, uso obre y=F(x) zagobaronne bei presbre mesperen Tane. Chrabgi, op-e y=F(x) € Kenepepbroro na [a, b], greopeperesitios. Ha (a, b), nouvoieg F(x) - f(b) - f(a), i F(a) = F(b) = 0. I Tany z onegy sea meopeny tank 2 Hatigembers morka € € (a, 6), que skoi F'(E) = f'(E) - f(B) - s(a) = 0, zbigker burnelbar Chibbighauersus (6.1) A

Repeula 6.2.3. Megrena Rollie Hexare obyekyii f(x) ma g(x): 1) stehepepbsi na bighizky [a, b]; 2) quopereseyiteobri sea inmerbani (a, b); 3) (x e (a, 6)) { g (x) \neq 0}. Mogi ichye morka Ge (a,6) maka, yo $\frac{f(6) - f(a)}{g(6) - g(a)} = \frac{f'(a)}{g'(a)} = \frac{6.2}{g'(a)}$ Dobegenne T Dobegeno, no eniblignamenne (6.2) mar cerc, modmo euro g(B) + g(a). Hachrabgi, akdie g(a) = g(b), mo ges for g(x) brekongbareice o yerober meopereur Toure i zigno z yicho meop. ichybana d morka 7 6 (a, b) maka, uso g'(n)=0. A ye cyneperence o ynobi meopernie. Vonsce, g(a) + g(b). Dezmerene of-10 $F(x) = f(x) - f(a) - \frac{f(b) - f(a)}{g(b) - g(a)} \cdot (g(x) - g(a))$ 3 orangy na quoble meopenen op-e F(x) jagobouble greeby meop. James, mony icry ϵ morka $\epsilon \epsilon(a, b)$ maka, uso $F(\epsilon) = 0$, moomo f'(G) = f(B) - f(A) - g'(G), 2btoper breneub.