R/[a,B]) - useo-bo gregoriani, usurezungenur no Tunany Bareranue: Thyens (ER([a,B]) merga) f(x) dx = lim S (+,C) Memore Bordpans novegobernelbrowns portuerum En m. 7. lin (n) = 0 y nocregobanere work (n) (nyrovem, mor.) $\int f(x)dx = \lim_{n \to \infty} S_{n}(f, c_{n})$ Onp. + (x) revzorbaenza kyeorro renpeporbreon rea [a,B] lem y rece koncercio Cucio mocen perpuda 1-oro poga (a Be Beex ocacionox nocación fly viengepurbeta) Inclubareruno: 7 pay Suerene a= 90 < 9, T. = ak < B 4 (x) renpeporbree her (a; 4; 1) " Cymerobyem ogbeocomojonome Meger lim f(x) Meonera: Ecen f (x) regiones Kenpeporbora, no flxl E R(Ig, B])

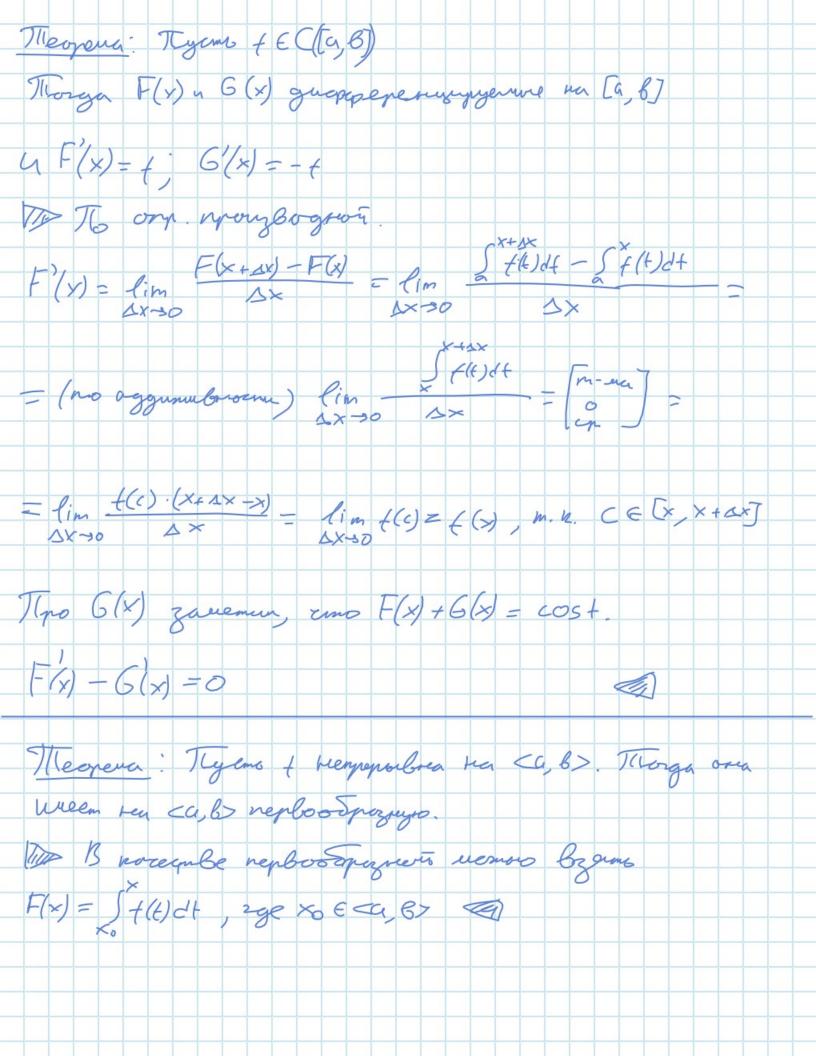
Covemba onpegiencos unmerpaed: 1-dx - B-a 1) Thyens f(x) E R([a, B]) y [a, B] C [a, B] Thongs $f \in R([\bar{a}, B])$ 2) (Aggumbrooms onpegiereroro cumerpara mucunello Omperen umerpapyeroum) Tyens a < C < B u f & R([a,c]) u f & R([E,B]) Merga (ER/[a,B]) u Sf(x) dx = Sf(x) dx + Sf(x) dx 3) (Unecuriocono) f, y ER([a,B]) x ME(R, morga 2++ m.g ER(ta,BJ) 4 $\int (\lambda + (x) + \mu g(x)) dx = \lambda \int f(x) dx + \mu \int g(x) dx$ 4 (Monomonnocone usunerpupo Berena) Thyeno f(x) = g(x) rea [a, B] & f, g & R([a,B]) Morga St(x)dx < Sg(x)dx

5) Thyens + ER([a, B]). Though If ER([a, B]) 4 $\int_{\alpha}^{\beta} |f(x)| dx = \int_{\alpha}^{\beta} f(x) dx$ 6) Eun f, g & R([a,B]), no fog ER ([a,B]) 7) Ecm f ER([a,B]) u f > 20 rea [a,B]. The 1 E R([a, B]) Meoneura (O chegreen). Plyant f, g & P([a,B]) 4 m & f(x) & M Thyms g (y re believen zowene rea [a, B] Morga Fue[m, M]: St(x)g(x)dx = m. Sg(x)dx.) you gonacounerson f ∈ (((a,B]):] ← [a,B]) f(x) g(x) dx = f(c) ·) g(x) dx In Dies onpegererencomes ayens g > 0 rea [a, B]

 $m \leq f(x) \leq M$ $m.g(x) \leq f(x).g(x) \leq Mg(x)$ $\int m \cdot g(x) dx = \int f(x) g(x) dx \leq \int Mg(x) dx$ (no econom.) m. \(\int g(x) dx \in \(\int \) D Ecu Sg(x)dx =0 mo (x) => SA(x)g(x)dx = 0

Morno bzeno npomborono pr 2) Eur Sg(x)dx +0, no Sg(x)dx >0 (m.k. g>0) Mageur (*) ra Sglddx $\int \frac{dx}{dx} dx = \int \frac{dx}{dx} dx$ $\int \frac{dx}{dx} dx = \int \frac{dx}{dx} dx$ Elu f(x) E C([a, b]), no romeo Bzenno B varenbe m reusungen f(x) vea [a,B] -11-11- M - reasceneyer. Bozoomswe zaconeral Thorga f (x) nonvenues Bre Mengy mu M

B commony JCECa,BJ: 4(c) = ME[m, M] Z $\int f(x) dx = f(c) \cdot (\beta - \alpha) \quad c \in [\alpha, \beta]$ Chaze cons y vieon unnerperal Corrane . Stx/dx =0 · eun a <B, no (f(x)dx = - f(x)dx Noce masero Cortamenas Begrown Concerbo (1) Stlydx = Stlydx + Stlydx gra Va,B,C 2) Va, B = C = [a, B] = f(x)dx = f(x) (B-a) (f & C([a,B]]) Onn: Tyung H(t) E R(ta,B]). Thorga F(x) = SH(t) dt XELa,B] Megeran unmerpupobaseur 6 (x) = 5 + (4)4+



Megrena (ocuobnas megrena comergacoros vocusiernos Chopeyen Hopmores - len Smunga) Thyung f & ([[a,B]), a P-eë nephrosp. rea [a,B] Thonga St(4)dx= 9(B)-9(G) to by npegongymero F(x) = P(x) +C St(+)d+ = P(x)+ C. nogenulum x=4 0 = 5°(+)H = 9°(a) + (=> = -9°(a) rogemobile x2 B St(1) 1+ = P(B)-9(g) Bannes 9P(x)/2 := 9P(l) - 9(a)