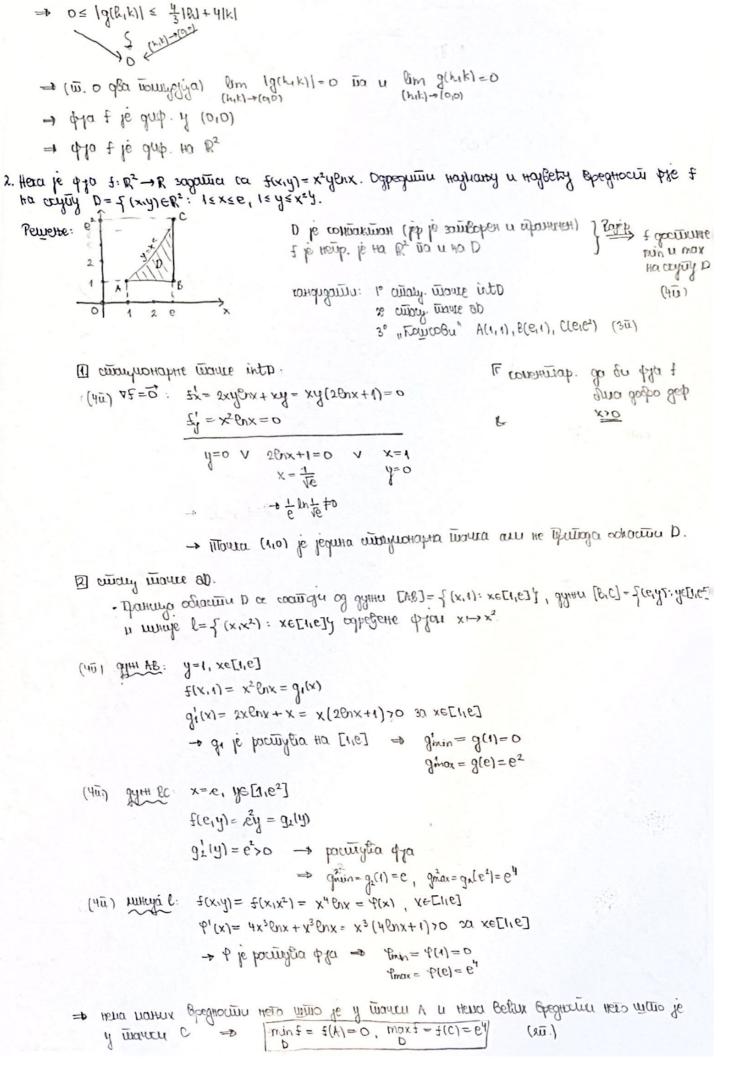
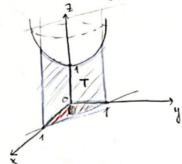
* Truchetta ucinin us travuse 3 (u chep) - Ceninendap 1 1. 20 ma je of ja $5: \mathbb{R}^2 \to \mathbb{R}$, $5(x,y) = \begin{cases} \frac{x^5 - 3xy^4}{(x^2 - xy + y^2)\sqrt{x^2 + 2y^2}}, & (x,y) + (0,0) \\ 0, & (x,y) = (0,0) \end{cases}$ a) Usamanin Herip. 4 je + 40 R².
8) Ogpegnin rapyyante usege 4 je + 4 (0,10). 8) Winimania guy. Oze i no R2. Pemere: a) ppa f je Hemperngha no 12°17(0,014 cao composinjaje nempernghux pja Meso nanniming Here à (010) out de m les 1 = (0,0) = £(0,0) = 0 (0,0) ~ (p,x) mano: $0 \le \left| \frac{x^5 - 3xy^4}{(x^2 - xy + y^2)\sqrt{x^2 + 2y^2}} \right| \le \frac{|x^5|}{(x^2 - xy + y^2)\sqrt{x^2 + 2y^2}} + \frac{3|x|y^3}{(x^2 - xy + y^2)\sqrt{x^2 + 2y^2}} + \frac{3|x|y^3}{(x^2 - xy + y^2)\sqrt{x^2 + 2y^2}}$ $=\frac{|x|/x^2x^2}{((y-\frac{1}{2}x)^2+\frac{3}{4}x^2)\sqrt{x^2+2y^2}}+\frac{3|x|/y^2\cdot y^2}{((x-\frac{1}{2}y)^2+\frac{3}{4}y^2)\sqrt{x^2+2y^2}}$ $\leq \frac{\chi^2 \chi^2}{\left(y - \frac{1}{2}\chi\right)^2 + \frac{3}{4}\chi^2} + \frac{3y^2 y^2}{\left(\chi - \frac{1}{2}y\right)^2 + \frac{3}{4}y^2}$ $\leq \frac{x^2x^2}{\frac{3}{4}x^2} + \frac{3y^4y}{\frac{3}{4}y^2}$ = \frac{4}{3}x^2 + 4y^2 / \frac{\text{Um}}{(x\cdot y) \rightarrow (0:0)} $\Rightarrow 0 \in \lim_{(x,y)\to(0,0)} |f(x,y)| \leq \lim_{(x,y)\to(0,0)} \left(\frac{4}{3}x^2 + 4y^2\right) = 0$ ⇒ \$70 je Heup. y (0,0) ⇒ plo le hent. Ha les 6) Matrilann meada the & il mann (010) no depanaphin. $f_{X}'(o_{1}o) = \lim_{h \to o} \frac{f(h,o) - f(o_{1}o)}{h} = \lim_{h \to o} \frac{\frac{h^{2}}{h^{2}} |h|}{h} = \lim_{h \to o} \frac{h^{2}}{|h|} = 0$ $f'_{1}(0|0) = \lim_{h \to 0} \frac{f(0|\lambda) - f(0|0)}{h} = \lim_{h \to 0} \frac{h}{h} = 0$ (B) of the fire the man of the state of the of the sound of the state of the sound of the state of the sound lim (h,k)-f(0,0)-fx(0,0)h-fy(0,0)k? 0 $\lim_{(h_1k)\to(0,0)} \frac{f(h_1k)-f(v_10)-f_{\kappa}^{*}(v_10)h-f_{\gamma}^{*}(v_10)k}{\sqrt{h^{2}+k^{2}}} = \lim_{(h_1k)\to(0,0)} \frac{h^{5}-3hk^{4}}{(h^{2}+2k^{2})\sqrt{h^{2}+2k^{2}}}$ Mario 0 = | g(R1K) | = (k-\frac{1}{2}h)^2 + \frac{1}{4}h^2 + \f $\leq \frac{|h| h^{2}}{\left(k - \frac{k}{2}\right)^{2} + \frac{3}{4}h^{2}} + \frac{3|k| k^{2}}{\left(h - \frac{1}{2}k\right)^{2} + \frac{3}{4}k^{2}} \leq \frac{|h| \cdot k^{2}}{\frac{3}{4}h^{2}} + \frac{3|k| k^{2}}{\frac{2}{4}k^{2}}$



3. Нега је Т иросторна одласт ограничена косрдинатиним равнима и тогријима 51: x+y-1 и S2: Z=2x2+y2+1. UsparyHattu Whitefox I= III ydxdydz.

Jemens.



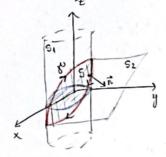
21 x + A=1 - bagan jaharenta 5-con $S_{\lambda}: z=2x^2+y^2+1$ - entiremente inforced to care z-all y waren (0,0,1), va 30 co ware (x,4,2)e5, BOHL 771

Пројегица области Т на ху-раван је: D: 0 < x < 1, 0 < y < 1 - x

Unajylin y δυρυ j-ny τοδρων 52, οδιανώ Τ υνα στινο T: 05x51,05y51-x, 05752x2+y2+1

4. Uspanytation whitespan $f = \oint (y-2)dx + (2-x)dy + (x-y)dz$, if e for the e operation including the e is e in gera 5-000.

Pemere:



Поври S, је ушиндрична са изводницана параленним 2-оси, а Sz је раван параленна у-оси.

Italiantino chops of na xil-bogan le emina:

$$\begin{cases} y_{xy} & \frac{(x-1)^2}{\left(\frac{2}{\sqrt{2}}\right)^2} + \frac{(y-2)^2}{\left(\frac{y}{\sqrt{2}}\right)^2} = 1 \end{cases}$$

пренасию на товритинст типетью притоков тестовые 5- uzosepumo ga Eyge geo pastu 52 aparturen trubon 8

Magebrino da 2 gibbe obrit carracino s. - 20 ratarios, obrit, chaze se aliagata carbana

Cuioxcaba pha: I= & F.dr = M(OXF)-ds F(x,y, 2)= (y-2,2-x,x-y) VXF = (Ry-Q2, P2-Rx, Qx-Py) = (-1-1,-1-1) = (-2,-2,-2) \Rightarrow I = [[(-5'-5'-5). qz bunhano noobannean transfor I oberne

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