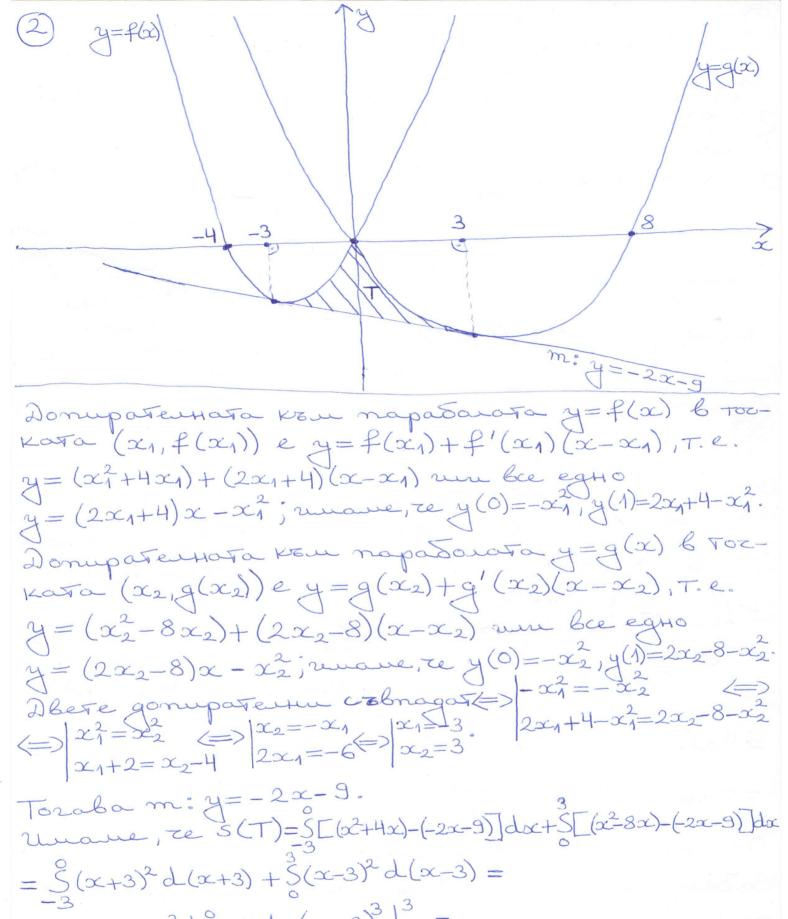
Onpegerenn unterpain, zact 3 3ag. 1 Hamepete myeto S(T) Ha opringpata T, 3 arpagena ot eurocata 2 + 32 = 1 (a>0, 6>0). Pervenue: ± KO Tockata (x,y) rescu на eumcata, TO retorkute (x,-y), (-x,y), (-x,-y) composercat. (-xy) (xy) a. evuncara e curret purcha enparo ascyrichata oc, opga-Hathara och koopgrunathoto

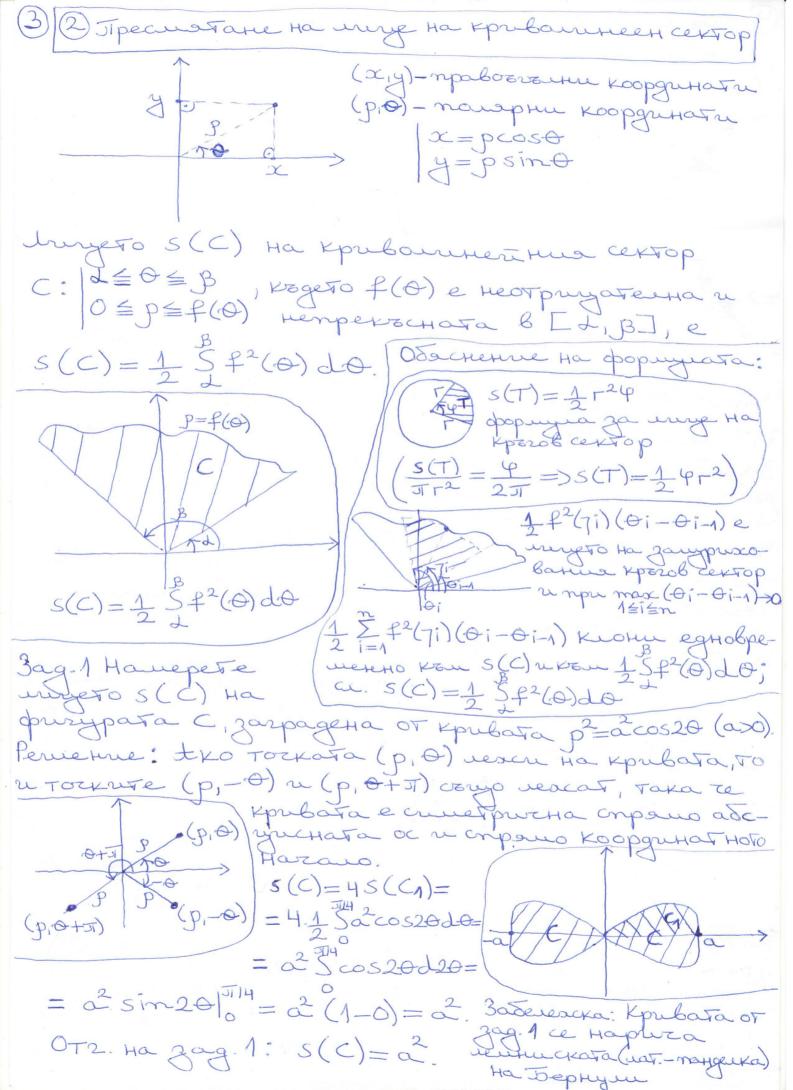
Hazano n ga ga a moctponen

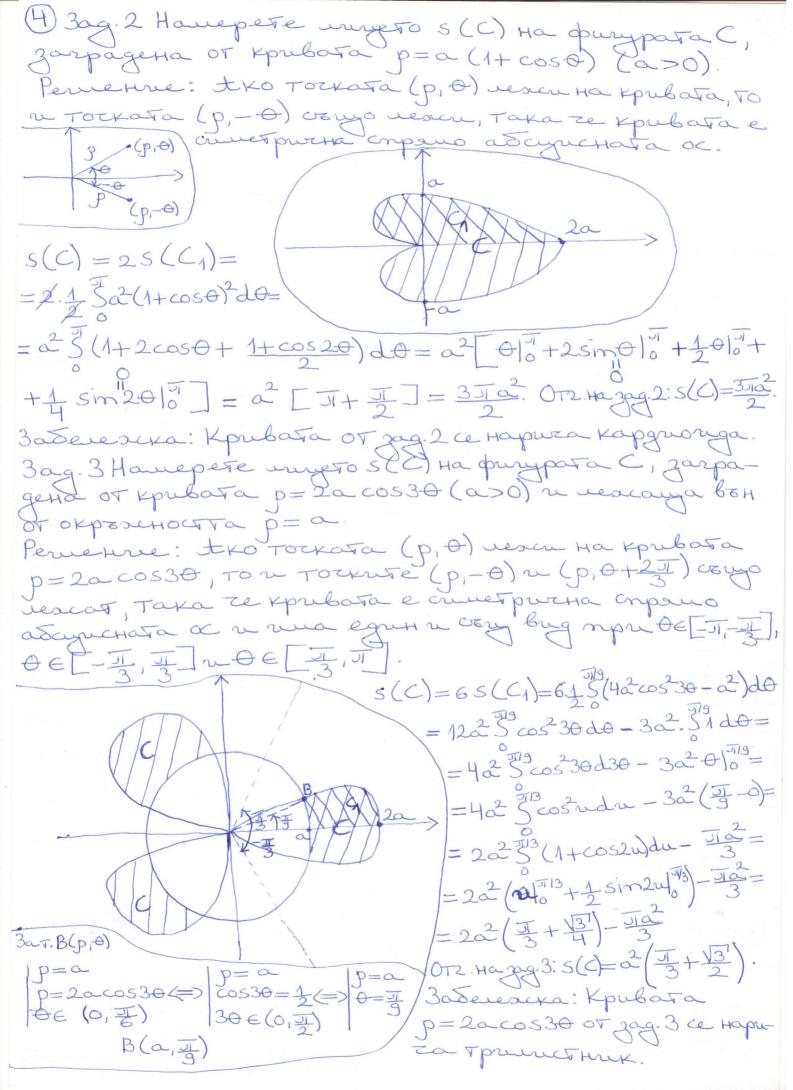
e goctat & tho ga moctponen

cactra or hear koaro nescu 16 1-bre Klagpart. $x^2 + y^2 = 1 = 1 - \frac{x^2}{a^2} = \frac{b^2}{a^2} (a^2 - x^2) = 0$ (=) $y = \frac{6}{a}\sqrt{a^2-x^2}$, $x \in [0, a]$ $b = \frac{1}{2} \sqrt{3^2 - x^2}$ $s(T) = 4 s(T_1) = (x = a sim t)$ = $4 \frac{5}{2} \sqrt{3^2 - x^2} dx = \frac{1}{2}$ -a $= 4 \frac{8}{5} \sqrt{2-x^2} dx = 4 \frac{3}{5} \sqrt{2-x^2} dx$)=46 Sacost d(asint)= = 4ab \$ cos2 t dt = 2ab \$ (1+cos2t) dt = = 2ab $(\pm |\sqrt{31/2} + \frac{1}{2} \sin 2 \pm |\sqrt{31/2}) = 2ab \cdot \pm |\sqrt{2} = \sqrt{10}b$ OT2. Ha gag. 1: S(T) = Jrab. Baderencka: OT zag. 1 npr a=b=r novyzabane, Te erento Ha Kpoz C pagnyc T e JTT2. 3ag. 2 Heka m e obigata gonupateura kan napabourte $f(x) = x^2 + 4x$ u $g(x) = x^2 - 8x$. Havepere impero S(T) Ha pringparat, zarpagena or gbete napasour u npobata m.



 $= \frac{5(x+3)^{2}d(x+3) + 5(x-3)}{a(x-3)^{3}} = \frac{1}{3}(x+3)^{3} - \frac{1}{3}(x-3)^{3} - \frac{1}{3}(x-3)^{3} = \frac{1}{3}(x+3)^{3} - \frac{1}{3}(x-3)^{3} - \frac{1}{3}(x-3)^{3} = \frac{1}{3}(x+3)^{3} - \frac{1}{3}(x-3)^{3} - \frac{1}{3}(x-3)^{3} - \frac{1}{3}(x-3)^{3} = \frac{1}{3}(x+3)^{3} - \frac{1}{3}(x-3)^{3} - \frac{1}$





(5) (3) Tipecustate Ha granscuta Ha Kpuba DEUDICUHATA $e(\Gamma)$ Ha Kpubata $\Gamma: [x=f(t), t\in [L], B]$,

Këgeto f(t) u g(t) ca henpekëchato grupepehyrpytur B[L,B], $e(\Gamma) = SVf'(t)^2 + g'(t)^2$ dt. B Zack Hock ako Γ e zpadpuka Ha dynkyna, T.e. ako Γ : Y = f(x), $x \in [d,B]$, To Γ : |x = t, $t \in [d,B]$ u e(r)= 5 V1+f'(x)2 dx. the nork $\Gamma: p = f(\theta), \theta \in [L, B], To \Gamma: x = f(\theta)\cos\theta$ $u \in (\Gamma) = SV(f'(\theta)\cos\theta - f(\theta)\sin\theta)^2 + (f'(\theta)\sin\theta + f(\theta)\cos\theta)d\theta =$ B $= 5 \sqrt{f(0)^2 + f'(0)^2} d0.$ 3 ag. 1 Hampete gousenhota e(T) Ha kpubata $\Gamma: x^{\frac{2}{3}} + y^{\frac{2}{3}} = 1.$ Perue une: tko Tockata (x,y) rescu Ha kpubata Γ , to rackate (x,-y), (-x,-y) como rescat. (-xy) (x,y) (x,y(-x,-y) Toraba, ako [1 e zactra of [, vee(T) = 4 e (T1). Ho TI monce reymodat (y= sin3t) tel Te manata Kpuba, Ha-puza ce actiponga Toraba e(1) = 4 e(1) = = 45 V(-3cos2tsint)2+(3sin2tcost)2 dt= = 45 V9cos4 Lsin2+ 49sin4 tcos2+ dt= = 4 5 V9costsinit(costtsinit), dt= actpa-(2p.)- zbezga

