Kpn horuneutin Tpanish Цента ни ще бъде да представяне мнонества от тоги в равнината кого храваннейна тратици или обединение от такива). Наполняме подлини имета Harrowits me gedutu unsta: Det Kputomieek sparey nox Hapurane mitollectro or longa 1 f(x) = y = g(x) , kodero a = b ca peateu zncha n
f(x) = y = g(x) 3 a bcako x = [a; b]. Abe or "corpature" Ha traneya con populure Ha Abe or "corpanure" Ha opaneya con porpulure H

Tytheyunte fing, a octoberre ca repabrite

x=a n x=b. Aro f(a)=g(a), to 12 barra octoba ee uspattga go rocka. Konsoluteet Trares c beprukattu octobre Det. KonbornHeelt marely no y luin a xopuzottalthe oftobal) Hapuzam ourypa or buda | C=y=d h(y)=x=t/y) c Dt MHOHLECTSa or Tozku & pabitutlata Motten da zadabame kato pewethus tha cucrena thepabeticis:  $|f_1(x,y)| \leq 0$   $|f_2(x,y)| \leq 0$ 

MHOHECTSOTO OT TOZKUTE, 3a KONTO S(X,Y)=0 e KPUBA B

pabhuhata. Heka f e Hetypek&Chata, Kpubata pasdens pabhuheta

Alay)=0 Ha odnactu. Bob beska or Tax, 3 Hallet Ha

f e thocroshet. 3a ga orepedenum donn e t ulu
e qoctatozho da paz megame egha tozka or odnactta.

Hakon upn bon · k \* + By + C = 0, (AB) = (D,0) e mpaba. Bedtara roxypaltuta AxtByt(>0 bapyrata, AxtBytC < 0. Take pemettusta tha AxtBy+CZO & Rosypabitutter zavedto L controptata Typaba. · Ax2+Bxy+C72 +Dx+Ex+F=0, (AB,C)+(0,0,0) toba e y parbitettue Ha xpuba or bropa crenet. B 3abriculour et 3 Hara Ha B? -4AC, Tosa e elunca, Rapadora nun xurepoora. C rodxodsugn spatictophayun or oбщого ypabletine ce dectura do grabitetue or boznottho Han-npoct bud (c Han-Marko Rapaherpu) - T. Hap. Kattotuzto y pai bitettue.  $3a enunca, to e <math>\frac{xc}{a^2} + \frac{yc}{b^2} = 1$ az + JZ = 1 e BETPEMHOCTTA HA ENURCOTTOI, az + 1/2 21 e bothutouta Ha enuncouta. Harpas, dacret chyrai Ha enutice e expostatoci (a=b) (者)2+(る)(=1- rathotho?tho ypa bitettine (x-L)2+(y-B)2=R2 - ypabHethre Ha exposithact c yettrap (d; B) n padnyc R.

Sad. 1. Tredcrowlere karo sparrey to x u karo sparrey to y MHOHECTSOTO; X+7 = 1 Pen. Benzen zagogetter "epubu" boongtoor ca repordu. Ha ednt reprett. x+y=1 ergosara ryzez (1,0) n (0,1) Y=1 e ryosa y croped Ha Ha Dy ryez (1,0) Y=1 - alteroruzità y=0 e a de y neata (-1,0) (1,0) x+y=1 3a da orpédens or vos crafe Ha boska ppula e reprettoro MHVHectoro usoupane rozka ussett Pocska rypador. Herax=y=2. xxy=4 \$1. => MHOHECTSOTO e or cripathata Haxty = 1, vosto He codopHa Tockata (2,2), T-e. Hadoly n Halsbo. Attonoruzto 3 a octatalute ripodu: Harelo or x=1 t = -1Howope or y=0 Rpeinzauen beuzen rody pabituiter rody zabane 3auspuxobatus TPVETELHUK. Boppohere my Hannpane trato rpecezion tozzu ta Bouten repalu:  $\begin{vmatrix} x+y=1 \\ y=0 \end{vmatrix} \rightarrow (1,0) \begin{vmatrix} x+y=1 \\ y=1 \end{vmatrix} \rightarrow (-1,2) \begin{vmatrix} x=-1 \\ y=0 \end{vmatrix} \rightarrow (-1,0)$ tparey Tw X! AcHo eire -1 = X = 1. LOUHOURA PORHUYA ZA Y CE Dasa or y=0, a rophata or x+y=1 Pemadane offoctoy " rolyzalane: | -1 = x = 1 Scanned with CamScanner

Type y = 2, a name  $-1 \le x \le -L$ ,  $\tau.e$ . ropalara octioba na toza traney ce uzpatiba go tozkarra x = -L. To ba ce itotoophqaba or zeptetia.

3ad. 2. Apoderabere karo of edukettue ta kpu bosuttentha Thanks MHOHECTBOTO 177+y2=2 Pem. x2+y2=2 e oxpossitoco e paduye 52. x2+y2 <2 e benjemtoctra, t-e. upera c paduye 10 "  $\chi^2-\chi^2=1$  e rurepotora ( happrobe(1,0) u (-1,0). 3 eHTEP (0,0). (0,0) He 43 NEAHSBa x2-72 ≥ 1. (2,0) n (-2,0) ro uznalitabor. >> x²-y²≥1 ca dberezauspuxodaten odnacru Hanarane Ha ody reprett: Una cumerpus cripsuo Dy. La paz Médame gacHara ractite. X20. > /goottoe da Muchum ja Tratey Too y. l'optara n'doltara octoba ca uzpódettu(T-e. ca rozku). Opathisethirte zax uddar or хитероста и окрежноста. Tropdo Hampane representire Torkn karo penethe Aa cucrena; 1 X5-15=T 1 X5 + 15=5 Ho x>0 => x = 16. Torola y= 2-3= = 1, y=1/2 Torala -13 < y < 13. Pemalane Haponsetterlora crypshox n roszsane, re x 20: x2+y2 ≤2 => x2 ≤2-y2 => x ≤ 12-y2 x2-y221 => x2=1+y2 => x = 11+y2 Taka ] - 52/2 = 3 = 52/2 [TTy2 = x = 12-y2 Scanned with CamScanner

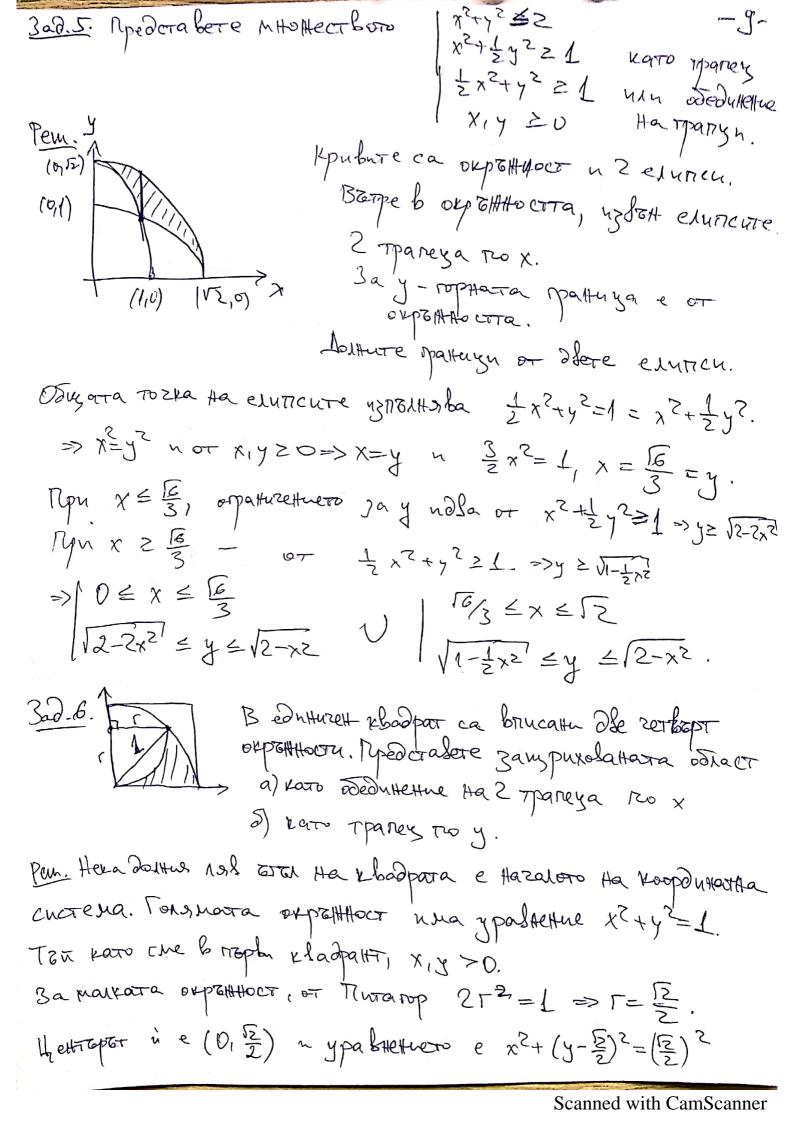
Chyrast X20 e attaloruzett. MATERIAT 3a y e ezuns. x2 \le 2-y2 -> |x1 \le \sqrt{2-y2} in nother |x| = -x, -X = 12-y2 => x 3-12-72. II: - 12/2 = y = 12/2 1-52-y2 < x < - 51-y27. (Tyk okpositiocorra doda della pattuya 3a x, a el urcara - ropata), 302.3. Rped crabere kom xopuzottrattu u beprukattu paryu MHOHECTER ( (E) 2+ 42 = 1 1 (x-1)2+y2=1. Peur. Порвого уравнение е канонигно уравнение на елипса. Broparo e ypabletue la oxpostitoct c'yettrop (10) u paduye: Bothe one be oppositionera a l'entreare Tparign no x! Pemabane crype ho 1:  $y^2 \leq 1 - \frac{x^2}{4}$ - VI-x2 < y = VI-x2, b 2a CTAOCT  $y^{7} \leq 1 - (x-1)^{2} = 1 - x^{2} + 2x - 1 = 2x - x^{2}$ Ho y 20 => 2x-x220 => x ∈ [0]?].  $\forall x \in \mathbb{Z}$   $= \sqrt{2x-x^2} = y \in \sqrt{2x-x^2}$ . Bax hhave 02x42. 3a y nnane Dollen palleyn - 11 - x2 n - 52x-x2 n ropothu mattuyn 12x-x2 n 11-x2.  $| 0 \le x \le 2$   $| \max(-\sqrt{1-x^2}, -\sqrt{2x-x^2}) \le y \le \min(\sqrt{1-x^2}, \sqrt{2x-x^2}).$ Scanned with Cam's

Monten about to everten to a or dytheyware pearing max/min. Pemabare Jer-x2 = 11-x2  $8x-x=1-x^2$ ,  $\frac{3}{4}x^2-2x+1=9$ ,  $3x^2-8x+4=0$ X112 = 4±2 x2 Mpn xe[3;2] y ce orpedera ot 11-x2 Bu xelo,3] - or 15x-x5. Tparyn ruy: Pemoisare crysmox. ラミハーy2 => x2=4-4y7, -211-y2 = x < 211-y2 B 2a CTHOCT, 1-y2 20 => y = [-1]. (x-1)2 = 1-y2 1x-11 < 1/1-y2 => 1-1/-y2 < x < 1+1/-y2. -12y =1 max (-2/1-y2, (1-1/-y2) = x = min (2/1-y2) (+1/-y2). Mpn -1≥y=1, 1-y2 ∈ [0] =>1-51-y2 ≥ 0 ≥ -2√1-y2. => max (-2/1-72, 1-11-42) =1-1/-42. Attalomatio, 2 M+y21- (N+M-y2) = M-y2-1 < 0 => 2 M-yz = 1+ M-yz => min (2M-yz, 1+ M-yz) = 2M-yz. => 1-1=y=1 1-11-y2=x =217-y2. 1 = 54 M S <- STIL = 24-172 0A g(L-y2)21, gy2=8, y2 < 8/9, |y/= 2/2.

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Taxal  $0 \le y \le 1$  $1 - \sqrt{1-y^2} \le x \le 2-y$ .

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(3/3/	0~
2 Travey a rox:  Early ce orpathuzala er y=0  N malkata oupetthor ( $x \le \frac{12}{2}$ )  Then $x \ge \frac{12}{2}$ or y=0 N rownaire  of petthor $\chi^2 + \chi^2 \le 1$ (barpe b rownaira) => $\chi^2 \le 1 - \chi^2$ $\chi^2 + \chi^2 \le 1$ (barpe b rownaira)	)
22+42=7 (perhe protohora) => 2=1-75 2 = 1-75	,
1 T(y-z) = z (43)6H Malkorta) =>  y-== ) > /=-x21.	
$y \leq \frac{12}{2}, \pi$ $\frac{2}{2} - y \geq \sqrt{\frac{1}{2} - x^2}, y \leq \frac{12}{2} - \sqrt{\frac{1}{2} - x^2}.$	-
Taka: $0 \le x \le \frac{32}{2}$ $0 \le y \le \frac{52}{2} - \sqrt{\frac{1}{2}-x^2}$ $0 \le y \le \sqrt{1-x^2}$	•
Tparey roy, y e methoy on $\frac{12}{2}$ . X ce metho methoy noutron on roughours on propertion.	
X ce mette mettoy nellata u rolahava o npolatices.	
1 (3 2) = 2 = 3x = \frac{1}{2}	
Tou karo x>0, TO x ≥ Vy [2-72]	
Tow kato $\chi > 0$ , to $\chi \geq \sqrt{y} \sqrt{z} - y^2$ . OT POLSHATA OKPOHHOET, $\chi^2 + y^2 \leq 1 = 3\chi^2 \leq 1 - y^2$ , $\chi \leq \sqrt{x}$ .	<u>ئے</u> _
Droftzartelto, / 0 = y = 12/2	
Droftzartelto, $\int 0 \le y \le \sqrt{2}$ $\sqrt{y \sqrt{z-y^2}} \le x \le \sqrt{-y^2}$	