॥ जम श्री राद्ये के हण। जम श्री विस्पात की भाष्टाराज ॥

ULTILMATE MATHEMATICS: BY AJAY MITTAL

CHAPTER: AOI (CLASS NO:2)

ON: 1 Find the own bounded by the cures

 $y=x^2+2$; y=x; x=0 and x=3

Son (1) 7=x2+2 x2=y-2 resten (0,2)
Law open tre Y-axy

(2) Y=X (3) N=0 (4) N=3lun (passy: equaha of lun (1)! they (010) Y-a xis to Y-axi to Y-axis

Ryugued cuy - 1 (2-12) - 21 dn $-\left(\frac{3}{3} + 2x - \frac{2}{2}\right)_{0}^{3}$

(3,1) $y=x^2+2$ (3,1) y=x (3,3)Q : 7 = 3

= (9+6-9)-(0)

= 21 Syaa Unih Am

On: 2 Find the aua bounded by the triangle whose Vertices are A(-1,0) B(1,3) · c(3,2)

$$\begin{vmatrix}
y - 0 & -\frac{3}{2} & (\pi + 1) \\
y - 3 & -\frac{7}{2} & (\pi - 1)
\end{vmatrix}$$

$$\begin{vmatrix}
y - 0 & -\frac{2}{4} & (\pi + 1) \\
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$$\frac{A}{(-1,0)} = \frac{1}{3} \left(\frac{3}{2} \right) - \left(\frac{3}{2} \right) = \frac{1}{3} \left(\frac{3}{2} \right) - \left(\frac{3}{2} \right) = \frac{1}{3} \left(\frac{3}{2} \right) - \left(\frac{3}{2} \right) = \frac{1}{3} \left(\frac{$$

 $\frac{(-1,0)}{2} = \int_{-1}^{1} \left(\frac{3\pi+3}{2}\right) - \left(\frac{\pi+1}{2}\right) d\pi + \int_{1}^{3} \left(-\frac{\pi+7}{2}\right) - \left(\frac{\pi+1}{2}\right) d\pi \\
= \int_{1}^{1} \left(2\pi + 2\right) d\pi + \int_{1}^{3} -2\pi + 6 d\pi \\
= \int_{1}^{1} \pi+1 d\pi + \int_{1}^{3} -\pi + 3 d\pi \\
= \left(\frac{\pi^{2}}{2} + \pi\right)_{-1}^{1} + \left(-\frac{\pi^{2}}{2} + 3\pi\right)_{1}^{3}$ An.

$$Solv(1) \in \{(1)\}$$

$$\frac{4}{3}x + 2y = 6$$

$$\frac{7}{4}x - 14$$

$$x = 2, y = 0$$

$$A(2,0)$$

Arc=
$$\int \frac{(n+5)}{3} - (y-2n) dn + \frac{3}{3} - \frac{(3n-6)}{2} dn$$

(1,2)

(2)

(3)

(3)

(4,3)

(1,2)

(3)

(1,2)

(3)

(1,2)

(3)

(1,2)

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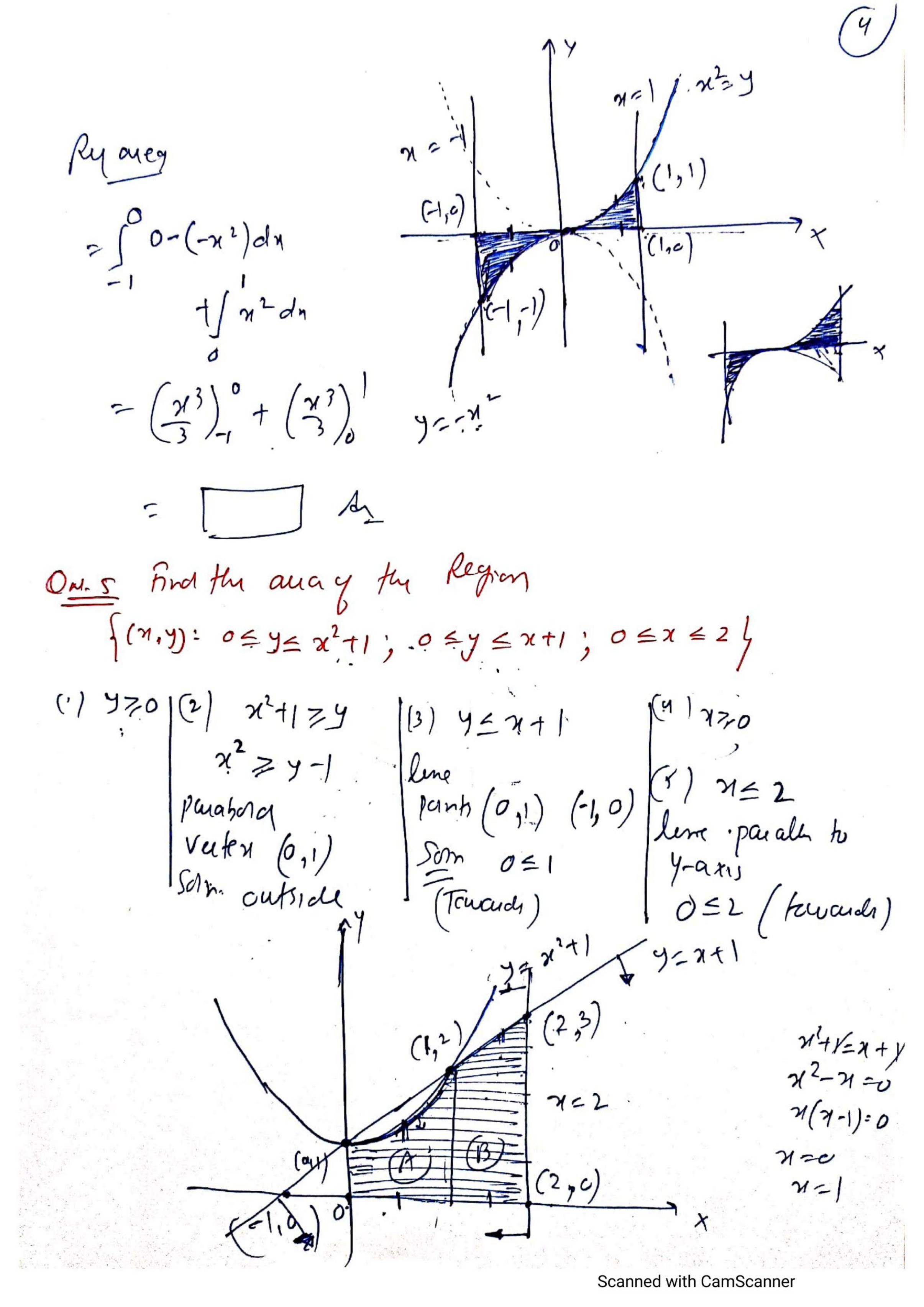
(3)

(1,2)

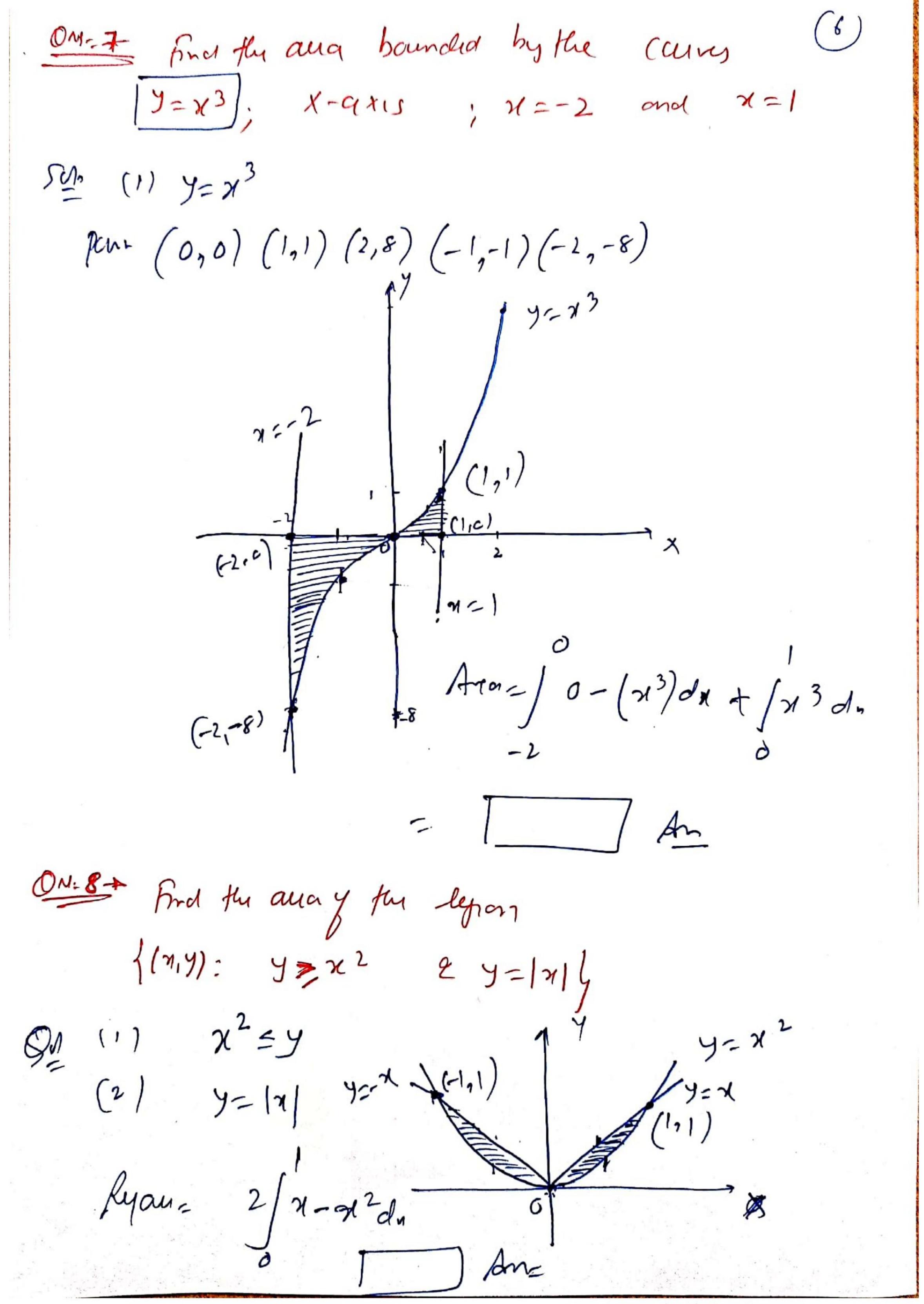
(3)

(4,3)

Ony find the area bounded by the cures $y = n|n|; \quad x-axis, ordinates \quad x = -1 \quad & \quad x = 1$ $y = n|n|; \quad x-axis, ordinates \quad x = -1 \quad & \quad x = 1$ $y = n|n|; \quad y = n|;$



J(n2+1)-(0) dn + (n-11) dy Ry anon-- Jan QN6 + Plan that the curves $y^2 = 4x$ and $4y = x^2$ divide the away the square bounded by x=0, x=y, y=y, y=0 in to three equal parts. (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14)(x2)2=4x xy= Gyx x9-64 x =0 71(x3-64) =0 n=on x =y Anog Region: A = 1 (1-254)dn = 16 gum. An. 1 Repu B= = 1 (252 - 323) dn= 16 St. uni. J4(22-0)dn= 16 4



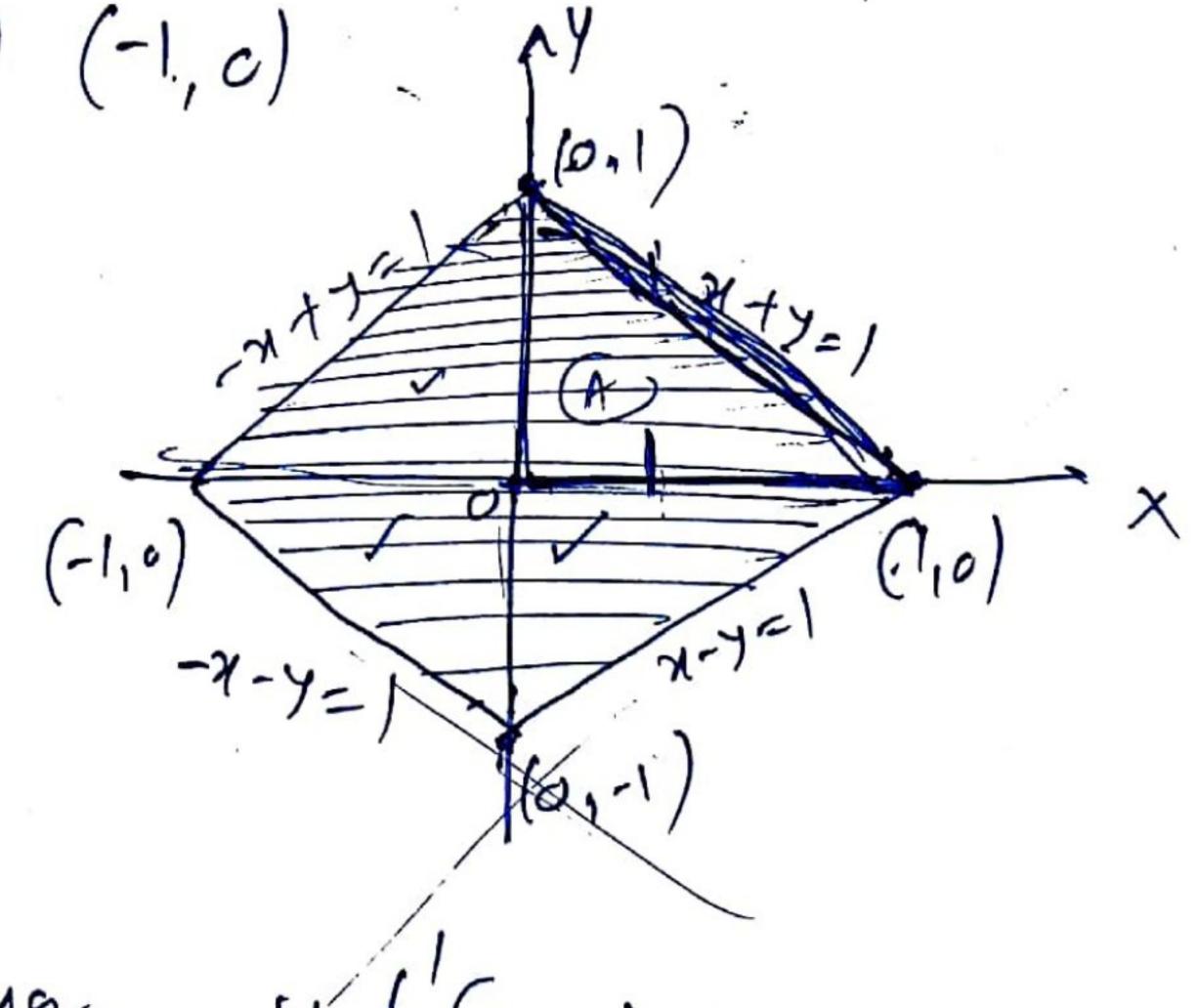
ONI-9 - First thy and bounded by the come (7)

$$S_{2}^{(1)}$$
 (1) $(0,1)(1,c)$; $(0,1)(1,c)$

(2)
$$\chi - y = 1$$
; $\chi = 0$, $\chi < 0$
 $(0, -1)$ $(1, 0)$

$$(3)$$
 $-x-y-1; x<0, y<0$
 $(0,-1)(-1,0)$

$$(Y) - x + y = 1$$
 ; $x = 0$ & $y = 0$
 $(0,1)$ $(-1,0)$. $(-1,0)$



Ry aua_

- []

On 10 Sketch the graph y= |x+3| and evaluate 1 1x+3|dx what does this value lepyent on the graph Ses y= /x+3/ y= \ 20 -2-3: 20 M= x+3: (x=-3) 7 pamh (0,3) (-3,0) Panh (0,-3) (-3,0) y= x+3 (ii) $\int_{-6}^{9} \left[\frac{1}{3} + \frac{1}{3} \right] dn = -\frac{7}{3} \left[\frac{3}{3} + \frac{3}{3} \right] dn$ (" their value reperents the also y the shocked Report on the grown.

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ON: 1) + Fird the and in the I'm Jua deant

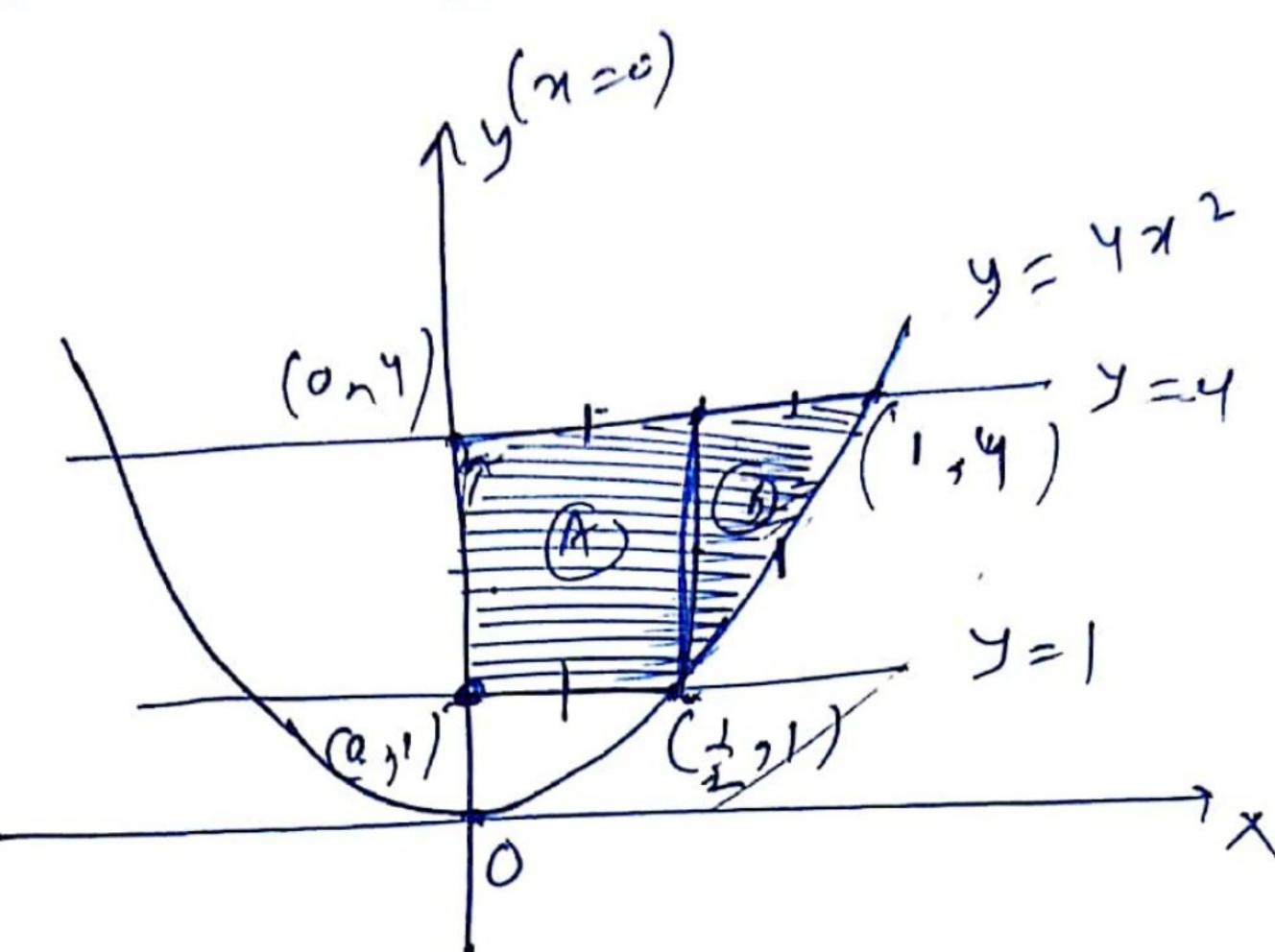
and bounded by y-4x2; x=0; y=1, y=4

500 (1) 4x=4

(2) 7 =0

(3) 4=1

(4) y= 4



Ryang

/(4-1)dn + /(4-4×2) do

1

Dete Deleted Questions from NCERT (All CIECLES & ELLIPSE OUESTICAS)

examples: 1,2,4,5,7,8,10

EXMUSE: 811: ONS 4,5,6,7,12

EXUCIE 8-2 : Ons 1, 2,6

Mixellaneous: Ones 8,9, 15, 18

-1-

WORKSHEET NO: 1 [Chaple AOI]
(clan No=2)
ONS: 1 Find the area bounded bythe trangle whole vertices are $A(2,0)$ $B(4,5)$ $C(6,3)$ [Ams 7]
C(2,3) C(6,3)
Out-2 A find the aua bounded by the cours
$9=x^2$; $x=1$, $x=2$ and $x-axy$ $Ans=7/3$
QMI3 & Bind the area enclosed between the parabola
J-14k and The line y=mx Ans: 8a2
- ma tu aua under tu carus
(HIMI: Find Points) (parabora type shape) The find the area of the legron bounded by the line Y=3x+2: V 6
Y=3x+2; X-axis and the orderates $x=-1$ and $x=1$
ON. 6 + Find the area of the parabora 12-11
(HINT: Yuahany Lapusuchum: x=a)
Ons 7 + Find for and under the cours $y^2 = 4\pi$ and $2\pi = y$ Ans = $\frac{1}{3}$
ON8 + Find the away the trangles whose Sides have the equations $y=2x+1$; $y=3x+1$; $y=y$ [ANS=8]

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On-10+ Find the aura bounded by the parasona X2= 4y and the line X=4y-2 [Ani=9] On 11 The and between $x=y^2$ and x=y is divided en to two equal parts by the line x=a. Find the value of a AMI= 1 a = 4 2/3)