

Polar rectangles

1:15 PM Sat 4 May

< All iCloud

O= x y ca

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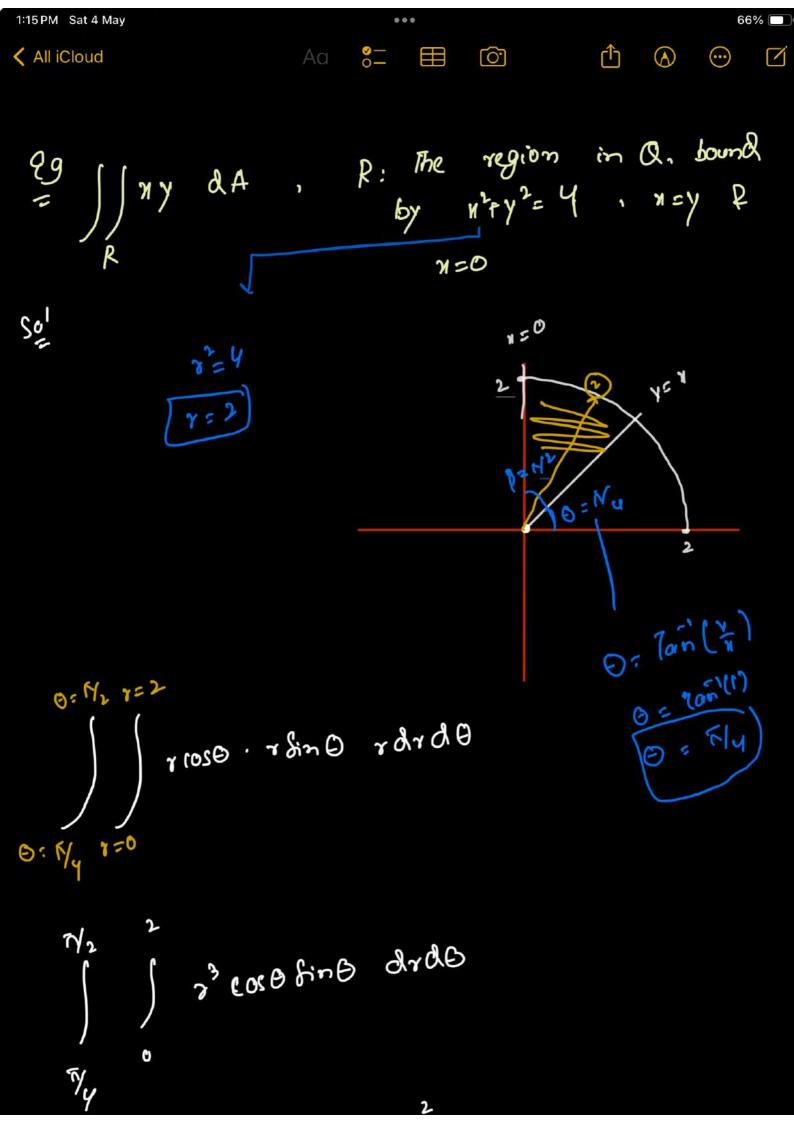
(<u>o</u>





across the region along Figuri D radius f(rcose, rane) drde

ligure & 0=13 7=92(0) f(ruso, r&no) rardo



Δα







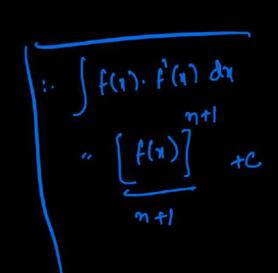
de











$$y = \begin{cases} \frac{3n^2(\sqrt[3]{2})}{3n} - \frac{3n^2(\sqrt[3]{2})}{3n} \\ y = 1 \end{cases}$$

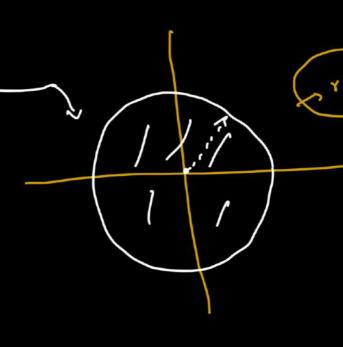
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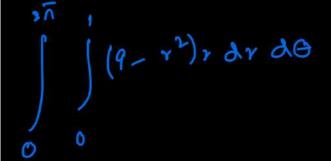


a) And volume between z= 9-12-y2 2 The xy-plane as bounds by the cylindes













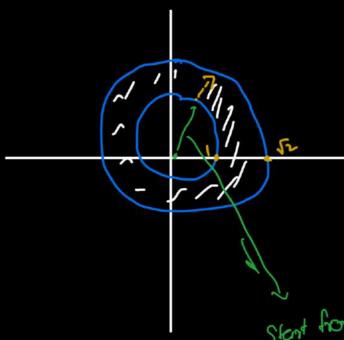
Q) Volume b/w Z= \frac{y^2}{y^2+y^2}

$$Z = \frac{y^2}{y^2 + y^2}$$

above my-plone

& b/w cylinders n2+y2=1

E N'+ y'= 2



0:25 2 Sing y dide 0:0

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Start from origin, a the arrow touchi the stoded region that will become 007 initial

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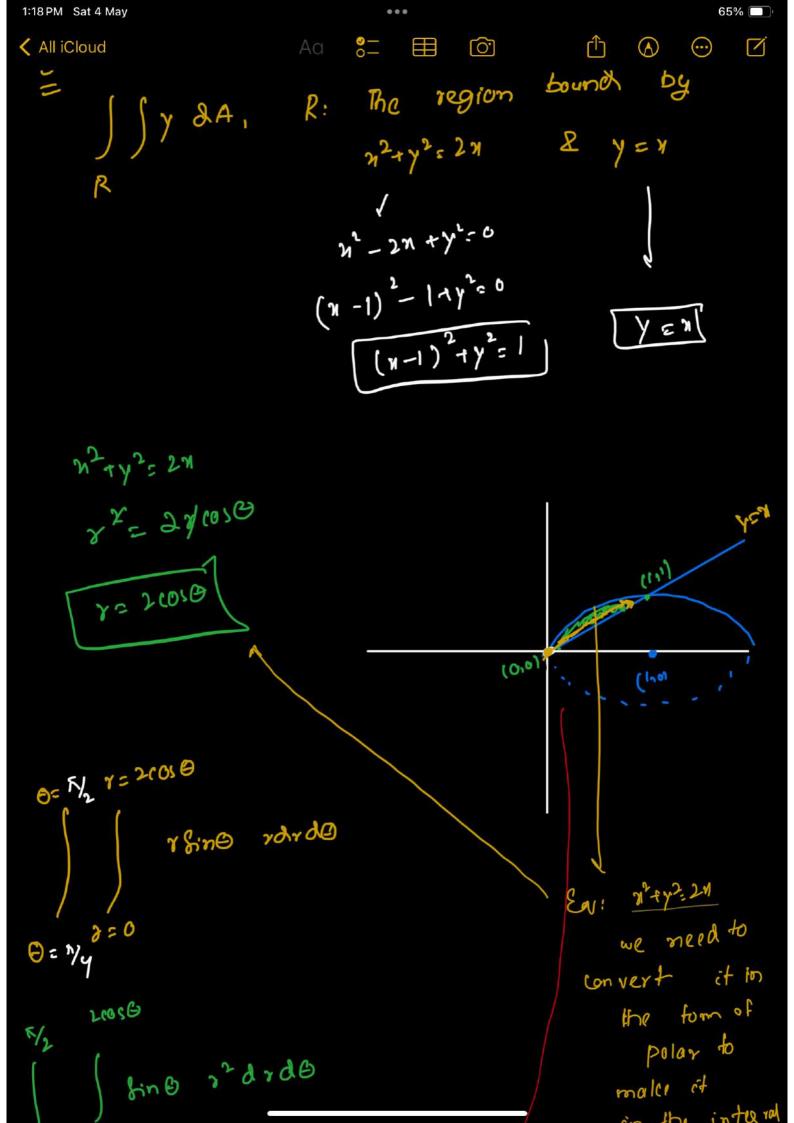
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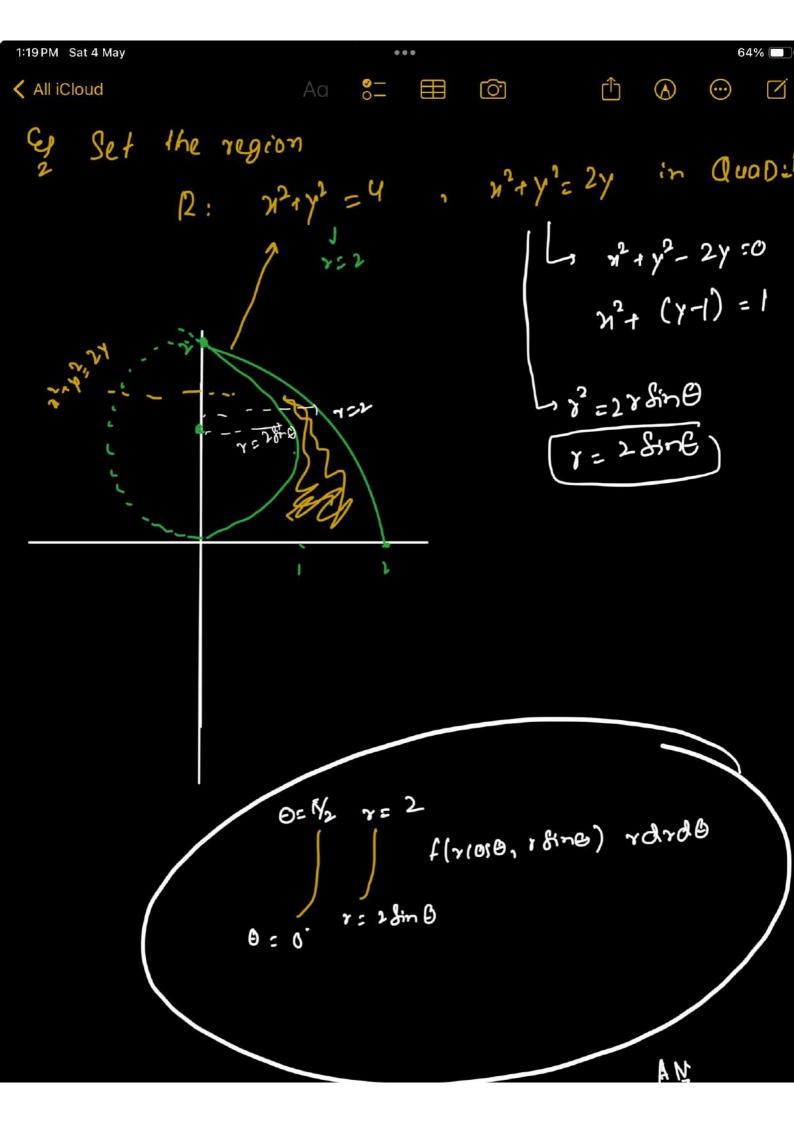
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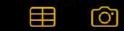
















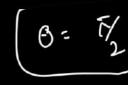


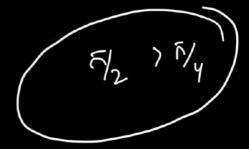


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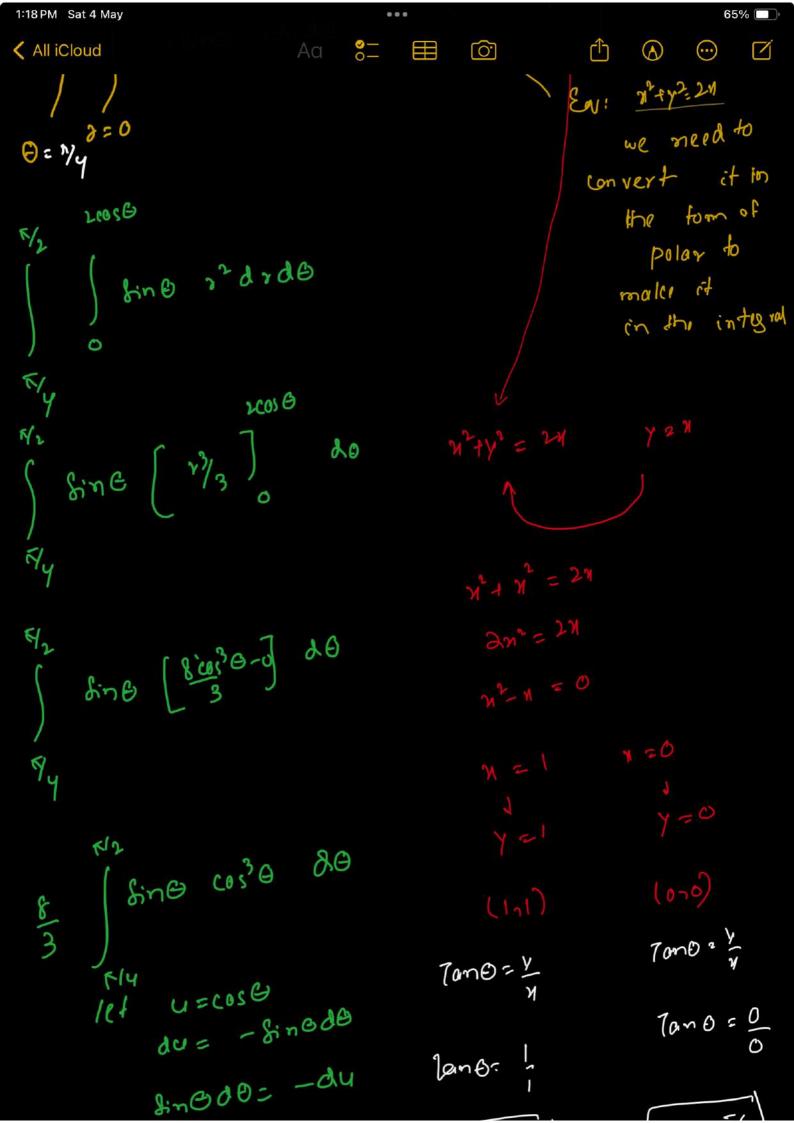


6: Ny

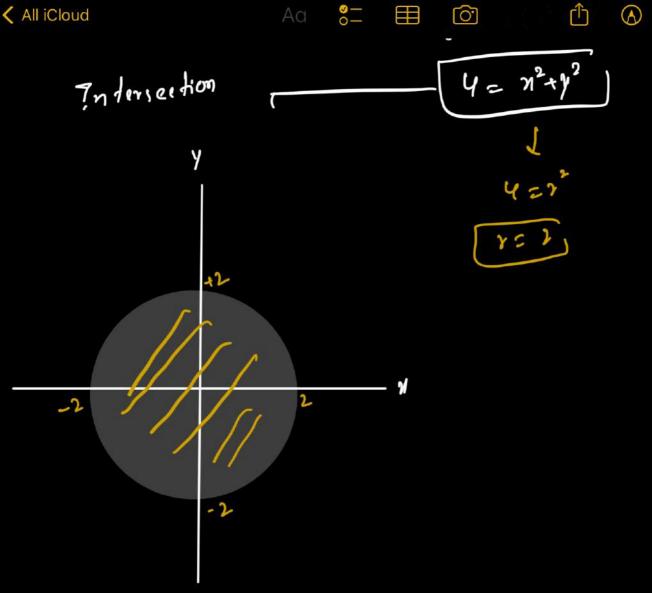




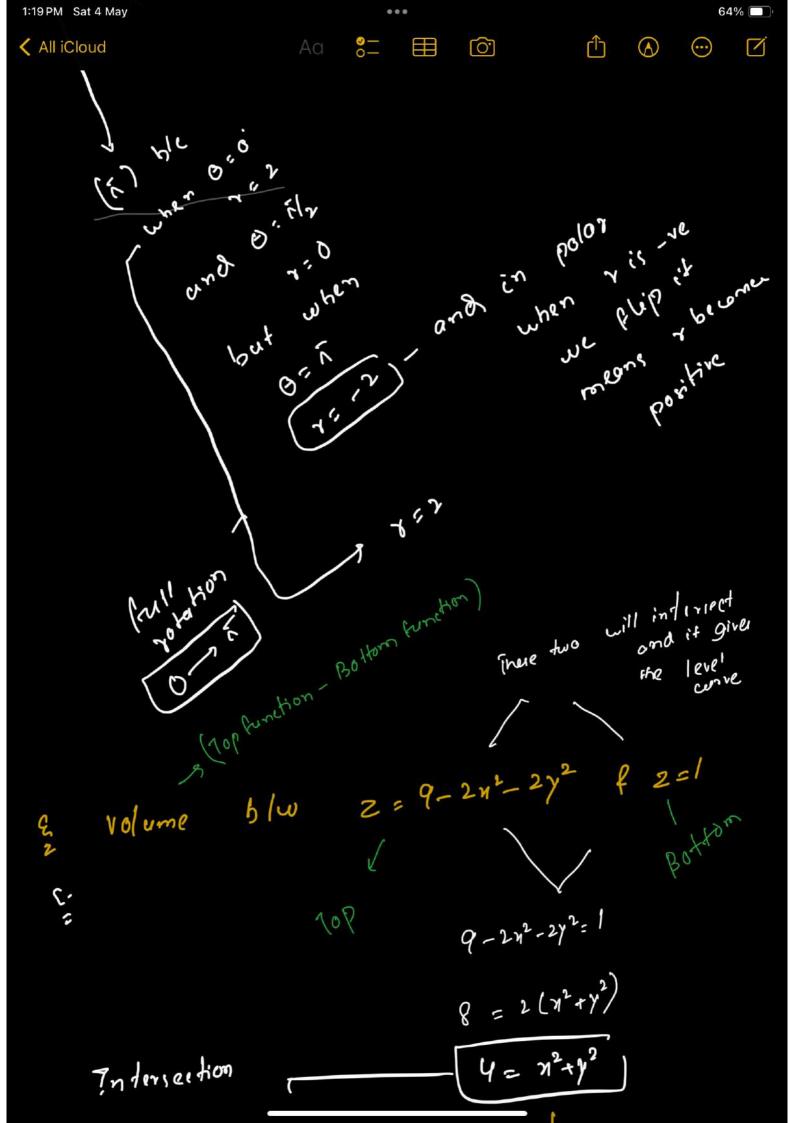
VN

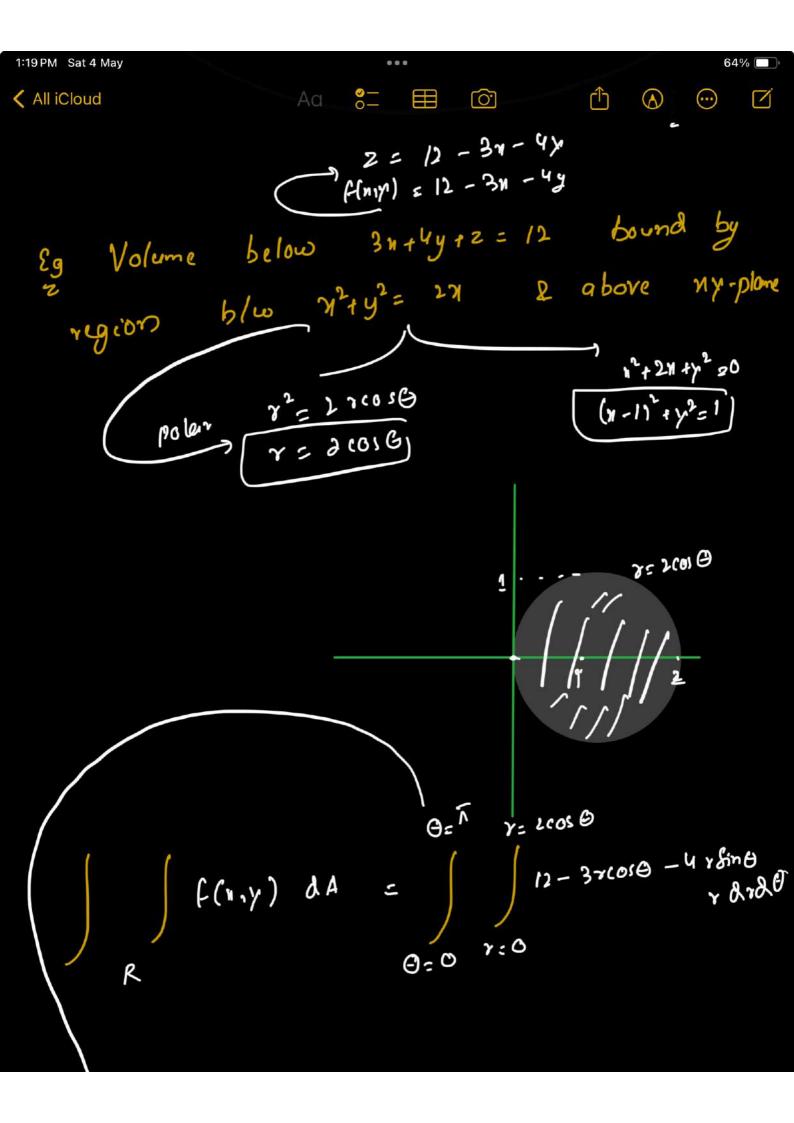






$$V = \int \int \int dA = \int \int dA = \int \int dA = \int \partial A = \partial$$





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$$|C+|U=2^{-\gamma^2}$$

$$\frac{dU}{dr}=-2^{\gamma}$$

$$\frac{dU}{dr}=\gamma dr$$











volume 5/w

$$z = \sqrt{2-x^2-y}$$

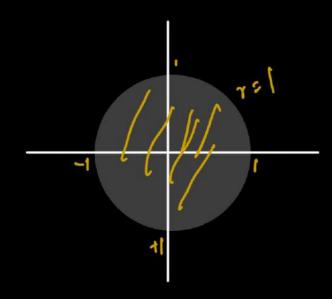
$$\sqrt{2-y^2-y^2} = \sqrt{3^2+y^2}$$

$$a = 2n^2 + 2y^2$$

$$a = a(n^2 + y^2)$$

intersection:

$$y^2 + y^2 = 1$$



1. 11+ P(00) h to peride top & bothom







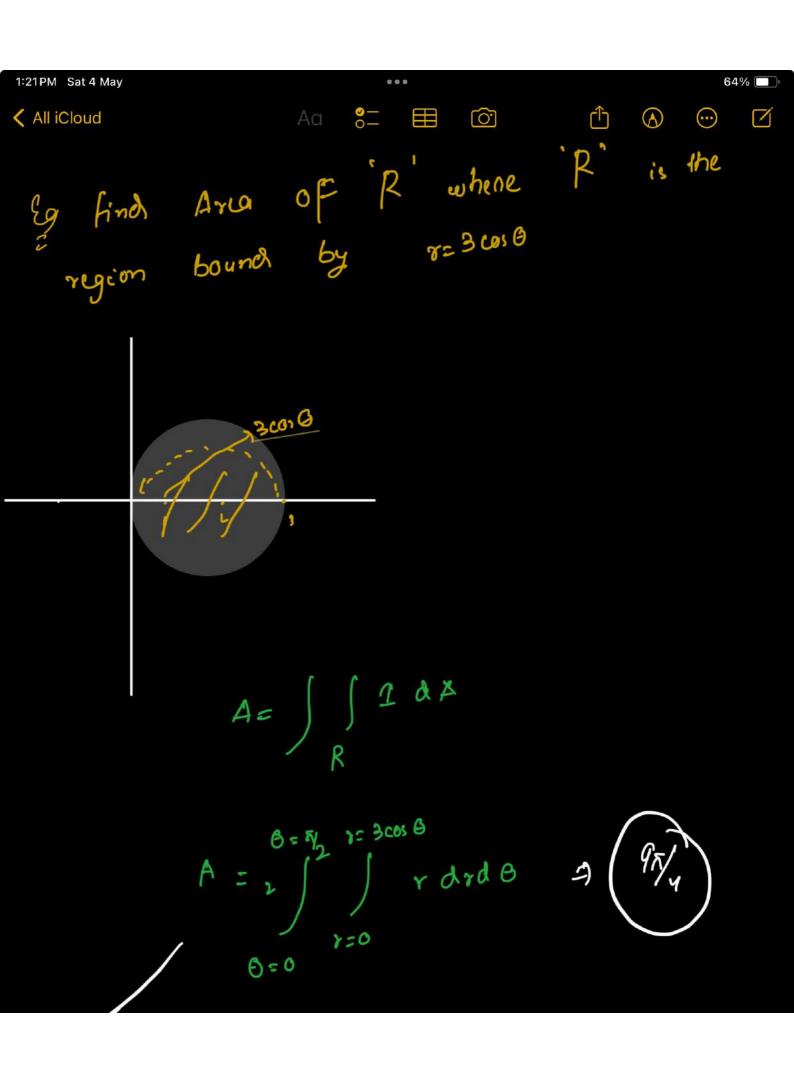




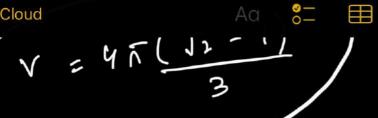




$$V = \int_{0}^{1/2} \left[\frac{8x^{2}}{2} - \frac{2x^{4}}{4} \right]_{0}^{2} d\theta$$









0









V= A.H















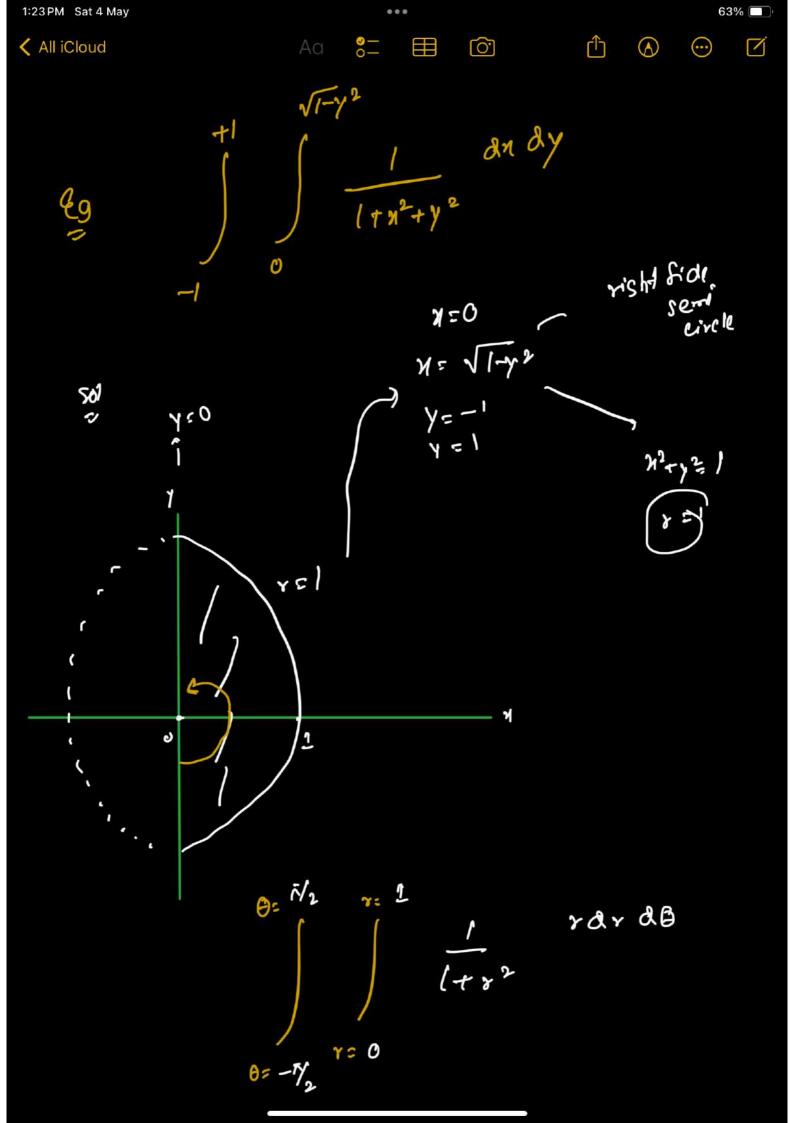
$$V = \int_{1}^{2\pi} \int_{0}^{2\pi} du d\theta$$

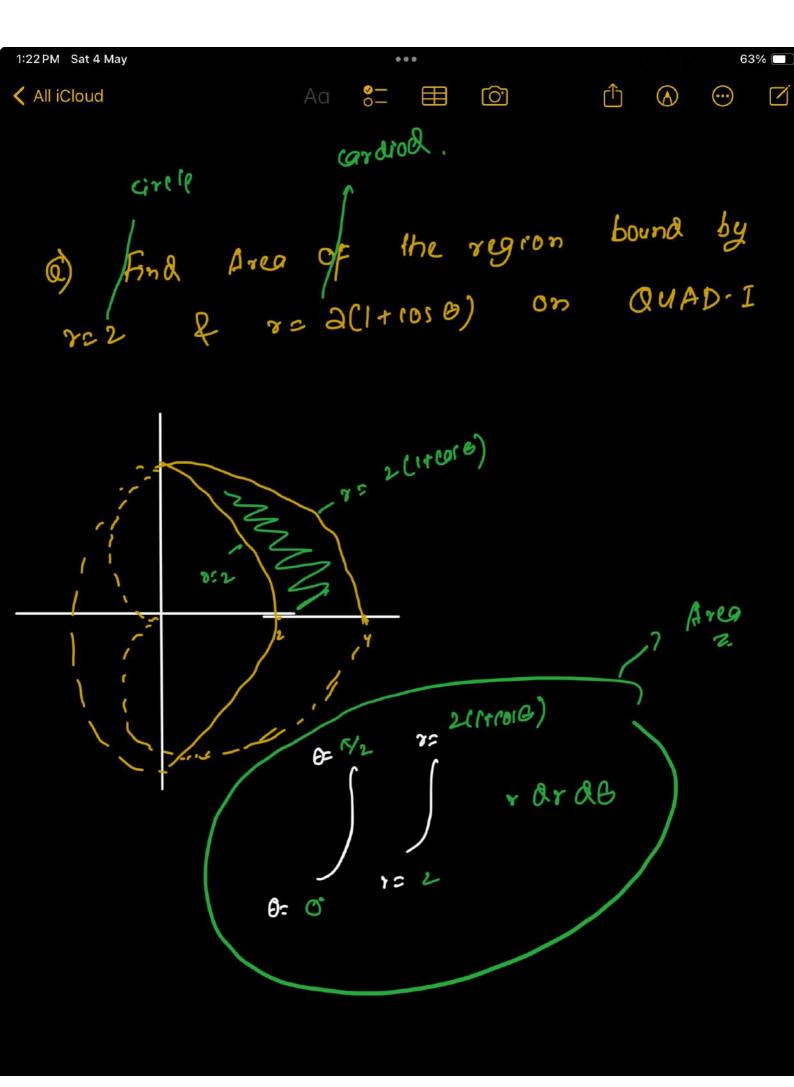
$$V = \int_{0}^{2\pi} \int_{0}^{2\pi} du d\theta$$

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$$V = \begin{cases} \frac{1}{3} & \frac{3h}{2} & -1 \\ \frac{1}{3} & \frac{3h}{2} & -1 \end{cases}$$





1:22 PM Sat 4 May

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:. The B range from 0 to T/2 ble if we get our range from obers which means the upper positive area will concel the lower negative area which results in total area to be zero to for

avoiding this we find the area of our upper virule by & range: o to $\frac{\pi}{2}$ and double the answer ble both are Symmetric .

when ever you are given a region in the polar form like: 8= n cos & or r= y &n0









63



-M2

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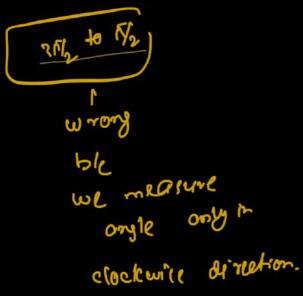




$$\frac{7}{\sqrt{2}}\int_{-\sqrt{2}}^{2}}^{2}\int$$

$$\int_{-N_2}^{N_2} \int_{-N_2}^{N_2} \left[\ln a - 0 \right] dS$$





(O) Y=1 コ Y=78mB 12 76n0

1. 721 Sine= 1/2 = 0=7/2

Y= -1 13 Y= rbre

-1=7810

-M

drab













ANZ









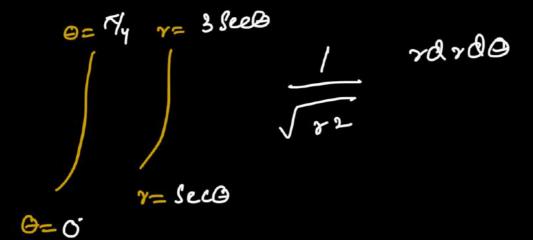








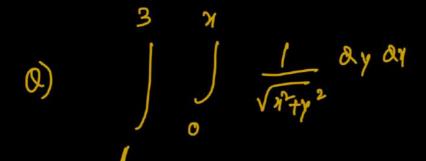


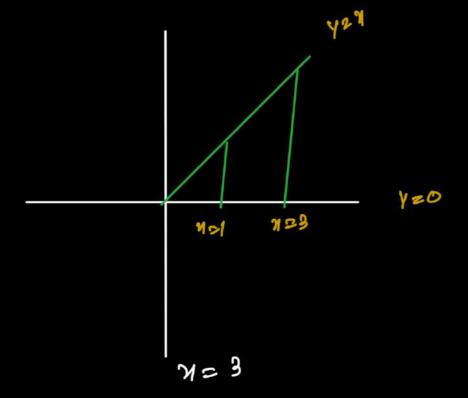


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n cl x colo = 1 7 2 COS Se LO 72

$$y = y = y = 0$$

$$\frac{\partial x}{\partial y} = 0$$