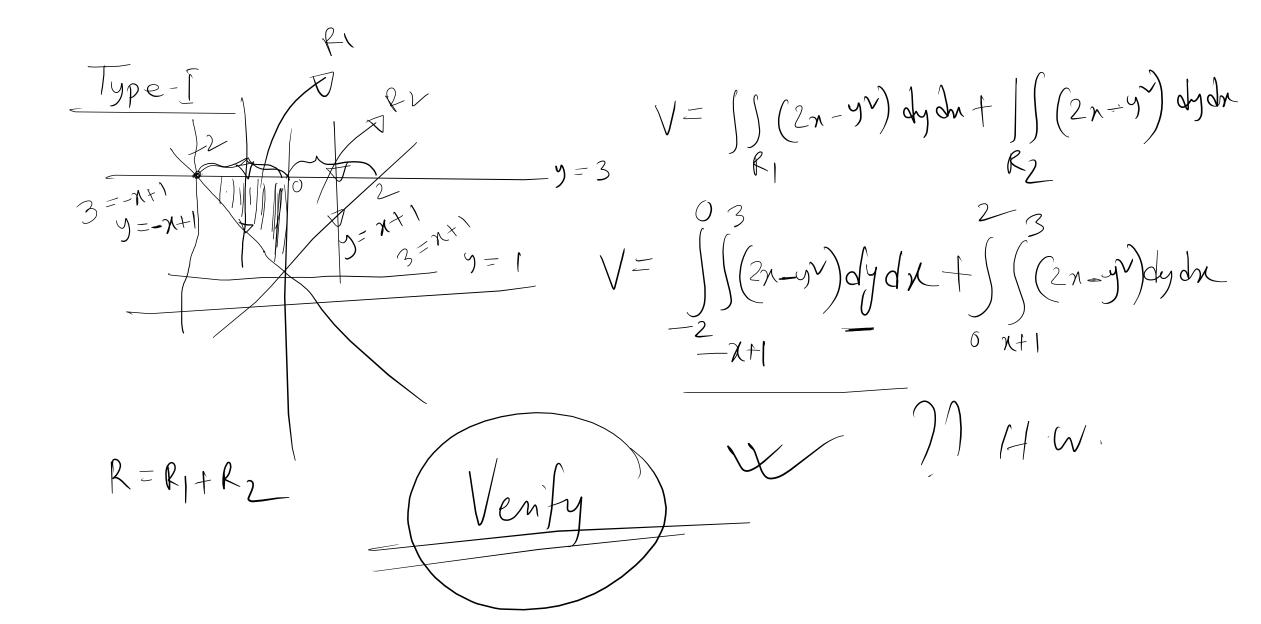
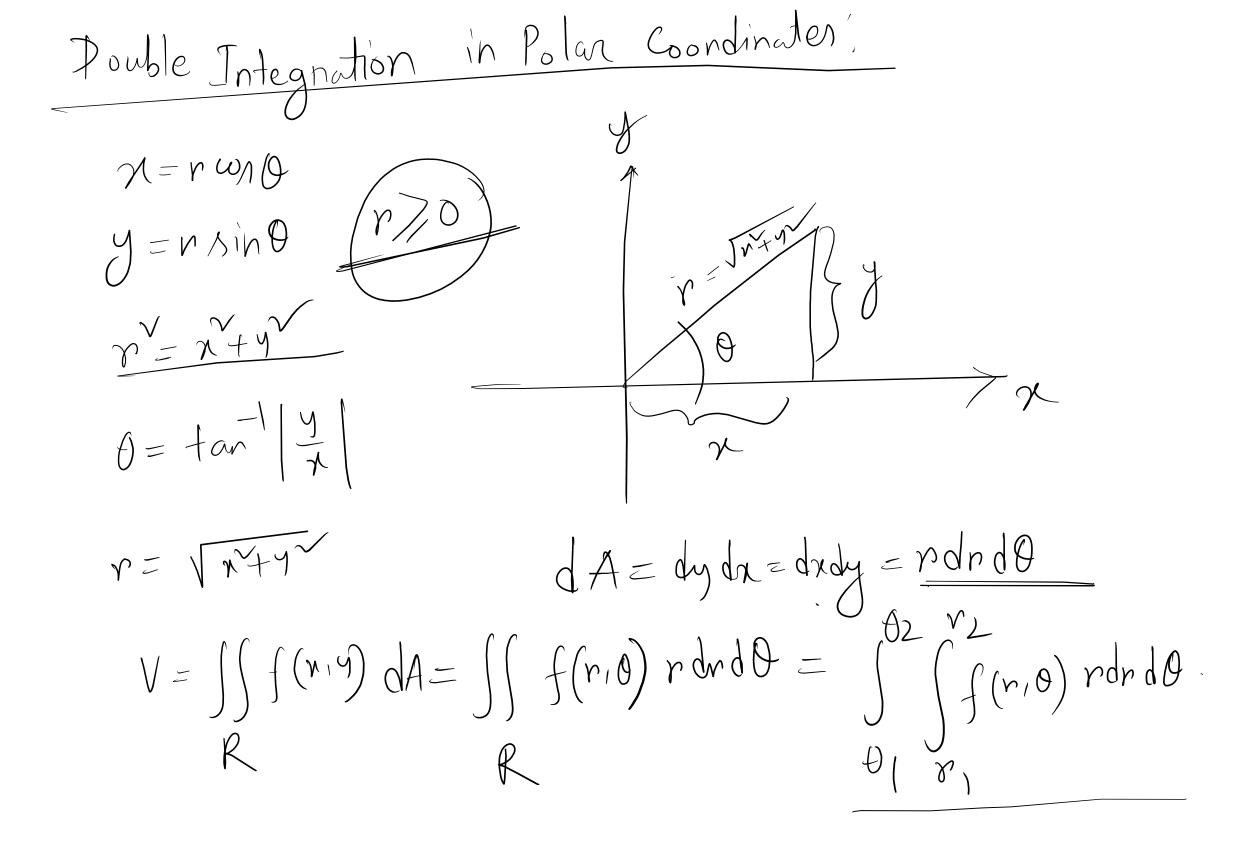
Find V= \(\left(2x-yv) dA\\ \text{over the negion (trianguler)}\) enclosed between the lines | y=-x+1, y=x+1, y=3 Solution' $-\chi + | = \chi + |$ $V = \int (2x-y^{\nu}) (dx) dy$ $2\chi = 0$ HW, =0



Find V= [nydA enduned by y=Jx, y=x. V= Jy dy dr Solution? => x=x4 =7 x4-x=0 $= 7 \times (x^3 - 1) = 0$ N=0,1, [N+N++0]



Use polar coordinate to evaluate the double integration of some of yelvar no dydn of yelvar no $\gamma = \gamma \gamma$ 0 Ø=0 0-21 0231

Evaluate V = 1 2 dy dx (in Polar Coordinate). dA=rando y=9-N = t ~ y = 9 $V = \int \int r \omega n \, dr \, d\theta - \sqrt{9-nV} \, \mathcal{L} \, \mathcal{L} \, \sqrt{9-nV}$ $-3 \leq \chi \leq 0$ r= \ may

V= 315 3 V= (rand drdo $=\int \frac{31}{2} \cos \theta = 9 \left[\sin \theta \right]_{\frac{31}{2}}$

$$7 = \alpha(1+\omega_10)$$

$$2 \cdot r = \alpha(1-\omega_10)$$

$$3 \cdot r = \alpha(1+\sin 0)$$

$$4 \cdot r = \alpha(1-\sin 0)$$

$$\gamma = a(H \omega n \theta)$$

$$\theta = 0$$
, $\gamma = \alpha(H\omega n0) = \alpha(H) = 2\alpha$

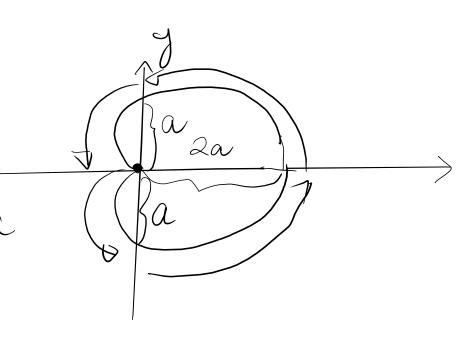
$$\theta = \frac{\pi}{2}$$
, $n = A$

$$\theta = 3T$$

$$\gamma = \alpha \left(1 + \alpha \sqrt{31T}\right) = \alpha$$

$$\theta = \pi$$
, $\gamma = \alpha (1-1) = 0$

$$\theta = 2\pi$$
, $\gamma = 2\alpha$



$$\frac{14.3}{(1-12)}$$
 $(3-34)$

Evaluate [[sin OdA], where R is the negion in the quadrant that 8 outside the cinde (r=2 imide the contoid. $\gamma = 2(1+uv\theta) - v\alpha = 2$ $\forall \gamma = 2(1+ \cos\theta)$ V= // sin 0 n drd 0 = (1+cono) Sinondado