# Assignment 03

05

$$\frac{dy}{dx} = \frac{7\cos\theta}{7\sin\theta} + \frac{dx}{d\theta}\sin\theta$$

$$\frac{dy}{dn} = \frac{5in30 \cos 0 + 3\cos 30 \sin 0}{-\sin 30 \sin 0 + 3\cos 30 \cos 0}$$

here 
$$0 = \frac{\pi}{y}$$

$$\frac{dy}{dx} = \frac{1}{2} + \left(-\frac{3}{2}\right)$$

$$\frac{dy}{dx} = \frac{1}{2}$$

## 1 = 2 cos 30

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Office		1000

For x-axis	For y-axis
8 - Q Cos 3(-0)	8 = 2 Cos (3 T - 30)
r = 200530	8 = 2 [cos 37 (0030 + Sin 37 Sin 30]
TRUE	8 z = 2 COO 38

False

	0	A second and the Collection of the control of the c	
	0	2	
	7/6	0	
	N/3	- a	
-	7/2	0	
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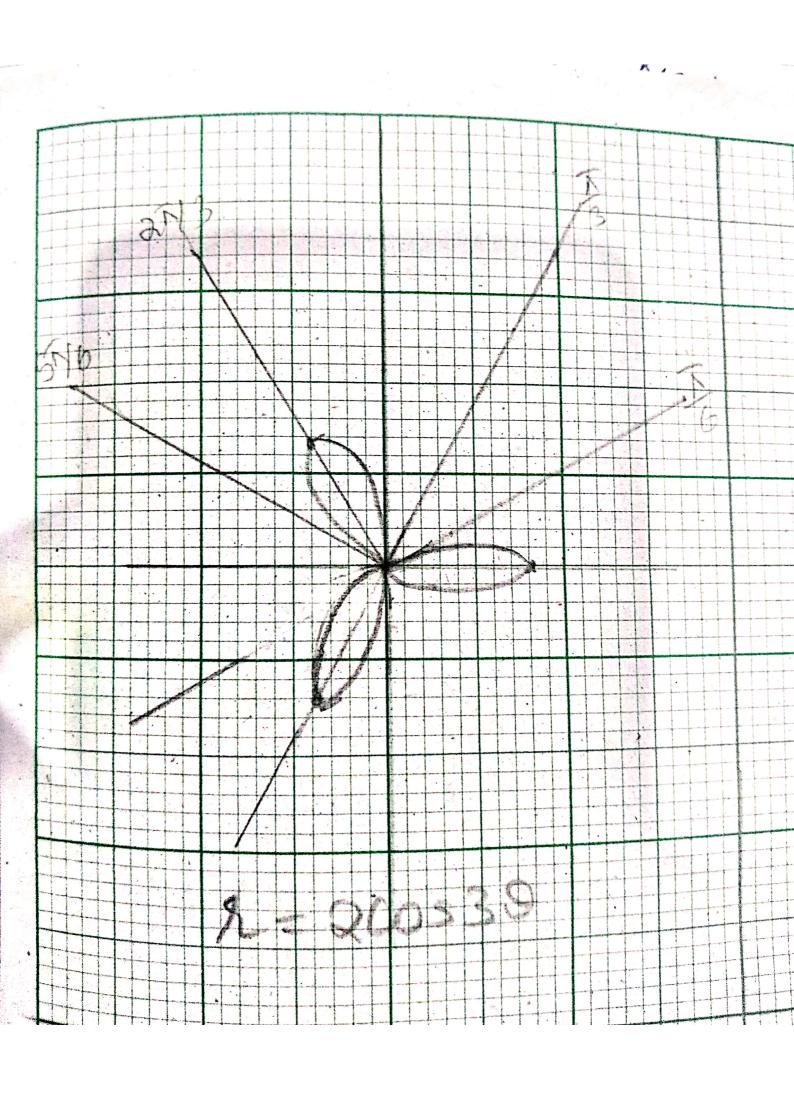
 $\frac{6}{8} = 6$   $\frac{6}{8} = 6$ 

 $\frac{d\theta}{ds} = 6$ 



 $0 = \frac{\pi}{2}$  3 = 0 dr = 6  $d\theta$ 

0 = 5x/6 8 = 0 d8 = -6



a COSO 311 dx z a coso sind - Sind + Sind do 1=a do zo  $+\left(\frac{dr}{d\theta}\right)^{2}$  $a[0]_{0}^{2A}$ 270

$$L = \frac{\alpha(1-\cos \theta)}{\alpha \sin \theta}$$

$$L = \int_{\alpha}^{\infty} \frac{1-\cos \theta}{a\theta} d\theta$$

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$$L = \frac{\pi}{\alpha} \int_{1-\alpha \cos \theta}^{\infty} \frac{1-\cos \theta}{a\theta} d\theta$$

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Let-2 2

$$\frac{dx}{d\theta} = \frac{1}{2}$$

$$\frac{d\theta}{d\theta} = \frac{2}{2}d\theta$$

$$\frac{2}{\sqrt{2}} = \frac{2}{\sqrt{2}} = \frac{2}{\sqrt{2}} \sin x \, dx$$

$$\frac{1}{\sqrt{2}} = \frac{4}{\sqrt{2}} = \frac{3}{\sqrt{2}} =$$

$$= 40 \left[-11 - 1\right]$$

$$= 40 \left[-1005 \times 3\right]^{2\pi}$$

$$= 40 \left[-\cos x\right]^{2\pi}$$

$$= 40 \left[-\cos \frac{0}{2}\right]^{2\pi}$$

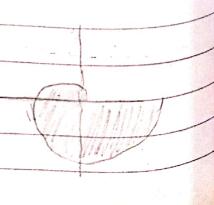
$$= 40 \left(+1 - (-1)\right)$$

$$A = \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{1}{(1-\cos 0)^2} d\theta$$

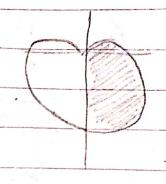
$$A = \int_{\mathbb{R}} \frac{1}{2} (2\cos\theta)^2 d\theta$$

$$A = \frac{1}{2} \int_{0}^{\infty} \frac{1}{2} (\sin 2\theta)^{2} d\theta$$

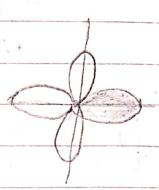
$$A = \int_{2}^{2\pi} \frac{1}{0^2} d0$$



$$A = \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \int_{2}^{1} (1 - \sin \theta)^{2} d\theta$$



$$A = \frac{1}{2} \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{1}{2} (\cos 2\theta)^{2} d\theta$$



### 

$$\Lambda = 2 + 2 Sind$$

$$A = \frac{2x}{2} \int \frac{1}{2} (2 + 2\sin \theta)^2 d\theta$$

$$=\frac{1}{2}\left[\left(12\pi-8\right)+8\right]$$

127-0

2

Q31

L = 460530

$$A = 3 \int_{-\frac{\pi}{6}}^{\frac{\pi}{6}} \frac{1}{2} (4\cos 3\theta)^{2}$$

$$= 24 \int \cos^2 3\theta$$

$$= 24 \int_{3/6}^{3/6} \frac{1 + \cos 6\theta}{2}$$

#### 939

$$A = \int \frac{1}{2} (3\sin \theta)^{2} - \int \frac{1}{2} (1+\sin \theta)^{2}$$

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$$8 = 1 + \sin \theta$$
  
 $2 \sin \theta = 1$ 

$$A = 2 \left[ \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{1}{2} (3\sin \theta)^2 d\theta - \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{1}{2} (1 + \sin \theta)^2 d\theta \right]$$

$$= 2^{\frac{n}{2}} \frac{1}{2} \left[ (351n0)^2 - (1+5in0)^2 \right] d0$$

$$= 2 \int_{0}^{\sqrt{2}} \frac{1}{2} \left( \frac{9\sin^{2}\theta - 1 - 2\sin^{2}\theta}{2} \right) d\theta$$

$$\frac{7}{2} \int_{1}^{2} 8 \left( \frac{1 - \cos 2\theta}{2} \right) - 1 - 2 \sin \theta + 2$$

$$= \left[ \frac{30}{2} + - \frac{2500}{2} + \frac{2000}{100} \right] \frac{N^2}{N/6}$$

$$= \frac{37}{2} - \left( \frac{7}{2} - \sqrt{3} + \sqrt{3} \right)$$

$$A = \frac{1}{2} + \cos \theta$$

$$A =$$