Muhammad Paihan Maulana-2306216636 Pop buit 7

1.5 b) 
$$\Gamma^2 = 12 \cos \theta$$
 (2)  $\Gamma = \pm \sqrt{12 \cos \theta}$  derig an  $12 \cos \theta \ge 0$   
by quadrum  $1 = 7 \cos \theta \le \frac{\pi \sqrt{2}}{2}$  and  $\frac{\pi \sqrt{2}}{2} = \frac{\pi \sqrt{2}}{2}$  by quadrum  $1 = 7 \cos \theta \le \frac{\pi \sqrt{2}}{2}$  and  $\frac{\pi \sqrt{2}}{2} = 2 \sin \theta$  and  $\frac{\pi \sqrt{2}}{2} = 2 \sin \theta$  and  $\frac{\pi \sqrt{2}}{2} = 2 \cos \theta$  simetric polar  $(\Gamma, \theta) = 7 \cdot (\Gamma^2 = 12 \cos \theta) = 1 - 12 \cos \theta$  and  $(\Gamma, \theta) = 12 \cdot (12 \cos \theta) = 1 - 12 \cdot (12 \cos \theta) =$ 

2] b) (ardioid 
$$\Gamma = 2\sqrt{3} + \cos\theta$$
 den circle  $\Gamma = 3\cos\theta$ )

 $\frac{\theta}{\cos\theta}$ 
 $\frac{1}{\cos\theta}$ 
 $\frac{1}{\cos\theta}$ 

2700 253

283 x 1 m 5 283 x 4 120 10 70 < 16

2-13+6050 = 56050 2-13 = 46650 6050 = 2-13

• Cert simetris sb.  $R = 7 (r_1 - \theta)$   $V = 24005 2\sqrt{3} + 605\theta V$   $V = 5605 \theta V$ 



b= + TC + TCK, N 6 Z

$$2A = \frac{1}{2} \cdot 2 \int (2\pi)^{2} - (3\pi)^{2} = \int (2\pi)^{3} + (65\pi)^{2} - 25 \cos^{3}\theta \, d\theta$$

$$= \int (2\pi)^{3} + (4\pi)^{3} \cos\theta + (65\pi)^{2} - 15 \cos^{3}\theta \, d\theta$$

$$= \int (12\pi)^{4} + (4\pi)^{3} \cos\theta + (65\pi)^{4} - 15 \cos^{3}\theta \, d\theta$$

$$= \int (12\pi)^{4} + (4\pi)^{3} \cos\theta - 2\pi + (65\pi)^{4} + (4\pi)^{3} \sin\theta - \frac{12}{2} \sin\theta - \frac{12}$$

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31 a.) 
$$f(x, y) = 4 x^2 \cdot y^2 - 16$$
 (=0, c=9)

 $x + y^2 = 1$  ellips (2, 4) horizontal vertexs = 4

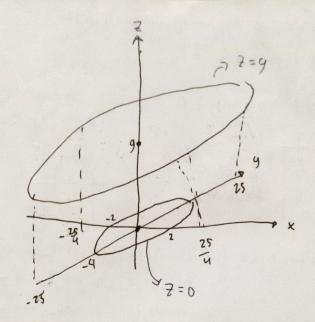
 $(=9, 7, 4x^2 + y^2 - 16 = 9$ 

$$(=9.7 \ 4 \ x^2 + y^2 - 16 = 9$$

$$4 \ x^2 + y^2 = 25 \quad (:25)$$

$$\frac{x^2}{25/4} + \frac{y^2}{25} = 1 \quad \text{ellips} \quad (\frac{25}{4}, 25) \text{ ke/Hal}$$

$$\text{Ver} \text{Jens} = 25$$



$$\frac{41}{91} = \frac{1}{91} \int_{-1}^{1} (x_1 y_1) = \frac{1}{91} \int_{-1}^$$