Muhammad Rainan Maulany - 2306216636 POR Quiz 6 $\int_{0}^{2\pi} y dx \qquad x = 2t - 2snt \ (=) \ dx = 2 - 2cost \ dt$ Bata) 2a = 2+ - 2 sint saut += 17 20 = 20 young integral 6 = 2+ -75m7 saut t= 0 $\int_{0}^{\infty} 2 - 2\cos t \quad (2 - 2\cos t) \, dt = \int_{0}^{\infty} (2 - 2\cos t)^{2} \, dt$ and son a = 5 9-865+ 1 WS 2++1 dt = \$\frac{1}{5}t - 8\sint + \sin 20t | 0 = \$ 5 + -85mt + sin 20+ 0 = (5.00-0+0)-(0-0+0) = 000 = 0 2 a) A(-3/3,-5), B(6,4) 4 tithe : 1= \(\(\frac{1}{2}\)-\(\frac{1}{2}\)+\(\frac{1}{2}\-\frac{1}{2}\) · (2/34), arctun (3/3)) = 1 (4-+5) 12+ (U-+5/3)2 · (2/34, arctun (3-53)+ TT) - V 81 + 75 = 756 = 2√39 · (2 /34, arctan (3/3)- 12) $\tan \theta = \frac{y_2 - y_1}{x_1 - x_1} = \frac{y}{4 + \sqrt{3}} = \frac{3.63}{5}$ · (-2-134,) = arctan (3/3))

 $\theta = \arctan\left(\frac{\overline{N_3}}{5}\right) \circ c \theta < \frac{t}{2}$

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$$r = \frac{8}{\sin \theta + \cos \theta}$$

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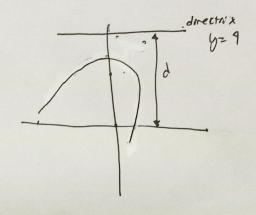
$$r = \frac{8}{\sin \theta + \sin \theta}$$

$$\Gamma = \frac{6}{2 + 2s^{2}(\theta - \frac{\pi}{3})} \quad ed = 3 \\ d = 3$$

$$= \frac{3}{(+ \sin(\theta - \frac{\pi}{3}))}$$

$$\chi^2 = 3b - 12y$$

 $\chi^2 = 12(3-y)$



Sim x-axis

$$(r,\theta) \rightarrow (r,-\theta)$$

 $r = 20 \cos(-3\theta)$