

-4) (= 3 sec Q 100 A r = 3Cus θ $rcos\theta = 3$ X = 35) $r = -4 cos \theta$ $r^2 = -4 r cos \theta$ $x^2 + y^2 = -4 x$ $x^2 + 4 x + 4 + y^2 = 4$ $(x+2)^2 + y^2 = 4$ $((\times D)^2 + (y D^2)^2 = 8$ $) x^{2} + y^{2} = 81$ $r^{2} = 81$ $r^{2} = 81$ $r^{2} = 49$ $r^{2} = 9$ 8) y = -5 $rsin\theta = -5$ r = -5 $sin\theta$ r = -5 cs(0)

(A	
	(9) $y^2 = 10x$
	$(r \in B)^2 = 10 r cm G$
	(13110) = 10 = 10
	$\frac{(r \sin \theta)^2}{r^2 \sin^2 \theta} = \frac{10 r \cos \theta}{r \sin^2 \theta}$ $\frac{r^2 \sin^2 \theta}{r \sin^2 \theta} = \frac{10 r \cos \theta}{r \sin^2 \theta}$
	ASIN B ISIN C
	$\Gamma = 10\cos\theta \neq 10\cot\theta \csc\theta = r$
	$\frac{102630}{510^2 \theta} \neq 100000000000000000000000000000000000$
<u></u>	SIGO
($\frac{10}{3x + 4y} = 2$ $\frac{3r \cos \theta}{4} + 4r \sin \theta = 2$
	$3rios\theta + 4rsin\theta = 2$
	r (3 cost + 4sint)=2
	r=2
	3cost +4sirt

1 $\frac{11}{y^2} - 8x - 1b = 0$ $(rsin\theta)^2 - 8rcus\theta - 16 = 0$ $\sin^2\theta r^2 - 8\cos\theta r - 16 = 0$ $ax^2 + 5x + c$ $r = 8\cos\theta \pm \sqrt{64\cos^2\theta - 4(\sin^2\theta)(-16)}$ 251226 $r = \frac{8\cos\theta \pm \sqrt{64}\left(\cos^2\theta + \sin^2\theta\right)}{2\sin^2\theta}$ $r = \frac{8\cos\theta \pm 8}{2\sin^2\theta} = \frac{4\cos\theta \pm 4}{\sin^2\theta} = \frac{4\cos^2\theta}{1-\cos^2\theta}$ $= \frac{4\cos\theta + 4}{(1 + \cos\theta)(1 - \cos\theta)}$ $= \frac{4\cos\theta - 4}{(1 + \cos\theta)(1 - \cos\theta)}$ V 4 (1056 +1) (141056) (1-1050) $= \frac{4(\omega s \theta - 1)}{(1 + \omega s \theta)(1 - (\omega s \theta))}$ 4 -4 (1-cos6) 1- 0050 (1+136) (1=1050) r = -41+ (056 -

 $\frac{12}{(x-1)^2} + \frac{(y+4)^2}{(y+4)^2} = 17$ x2-2x+1 + y2-1 8y +16= 17 $x^2 - 2x + y^2 + \delta y = 0$ $x^{2} + y^{2} - 2x + 3y = 0$ $r^2 - 2r\cos\theta + 8r\sin\theta = 0$ $\Gamma (\Gamma - 2 \cos \theta + \vartheta \sin \theta) = 0$ $F = 2\cos\theta - 8\sin\theta$ 50

13) (4mi, 12°) -> (4cos 12, 4sin 12) = (3.913, 832) (2mi, 72°) -> (2cos 72) 2sin 72) = (.618, 1.902) $d = (3.913 - .618)^{2} + (.832 - 1.902)^{2}$ d = 3.46 miles14) (3mi, 170°) = (3cos 170, 3sm 170) = (-2.954, 521) $(5_{mi}, 150) = (5_{cui}, 150, 5_{51-150}) = (-4.33, 2.5)$ $d = \left(-2.954 + 4.33\right)^2 + \left(-521 - 2.5\right)^2$ d = 2.41 miles