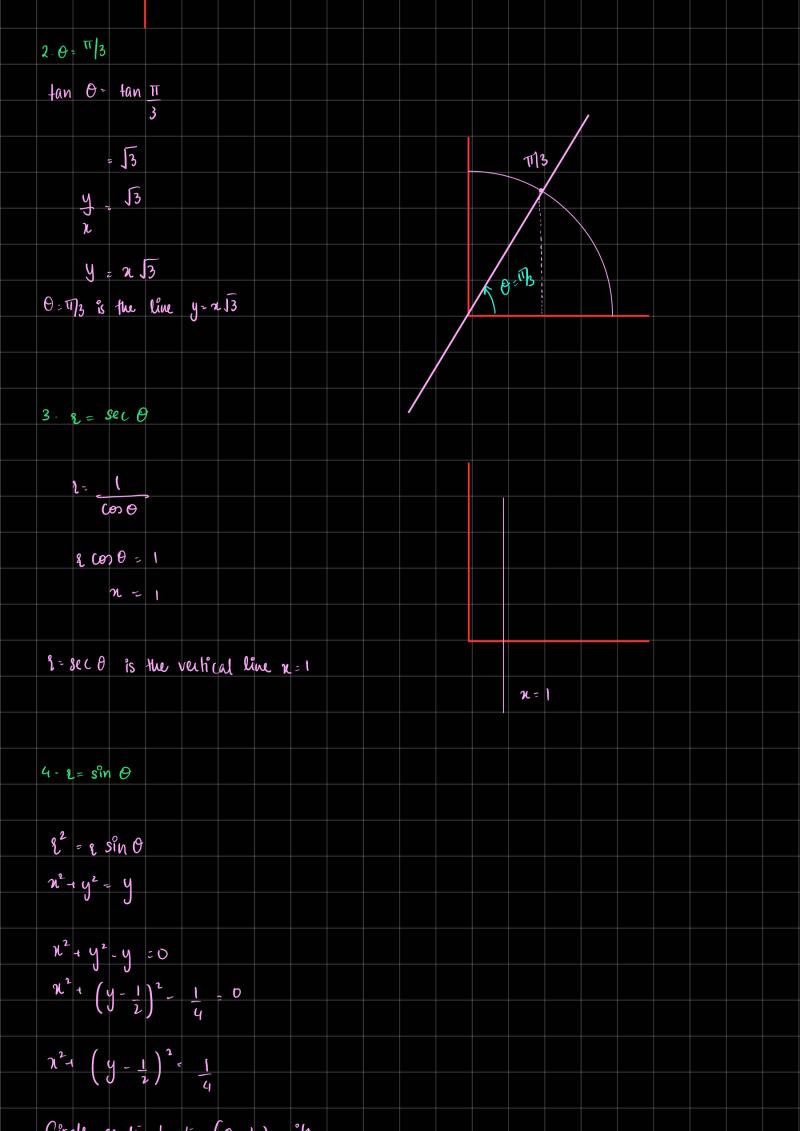


$ \Theta = 4an^{-1} \left(\frac{1}{4} \right) = \frac{3\pi}{4} \text{or } 7\pi$		
4 2 = 52 , θ = 3π/4 4 5 = - 52 , θ = 1π/4		
(J2 , 3T)		
(-1,1)		
(-52,711)		
(0,2)		
$ \frac{2}{2} \pm \sqrt{4} = \pm 2 $ $ \frac{1}{2} = \frac{1}{2} $		
9/2=2, θ = π/2		
J 2 -2, Θ = 317/2		
76 tr 2, 3 tr 2		
Polar Curve		
In polar coordinates, the graph of $2 = 100$ is called a polar cur	re.	
Evanue		
Example Sketch the following polar curves		
1. 2 = 2		
8= 2		
$g^2 = \chi$		
$\chi^2 + \chi^2 = \chi$	0	
Circle centered at (0,0) with eadius	Z .	



Cital centered at	(O, 1) with				
radius 1	(2)				
2					
$5 - 2 = \cos \theta + 2 \sin \theta$					
V-rcont + 2rsin	n O				
n ² +y ² = n + 2y					
n²- n-1 y² - 2y =	= D				
$\left(\frac{\gamma(-1)}{2}\right)^2$ $\left(\frac{y}{y}\right)^{-1}$	()2 - -0				
$\left(\frac{\chi-1}{2}\right)^2+\left(\frac{\chi}{2}\right)^2$	-1)2= 5				
$\begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \end{pmatrix}$	4				
			1 5 \		
Circle centined a	$\left(\begin{array}{c} 1\\ \overline{2} \end{array}\right)$ $\left(\begin{array}{c} 1\\ \overline{2} \end{array}\right)$	n jadius (2		
		\			