$$\begin{aligned}
\chi &= \chi \cos \zeta & \chi^{2} + y \lambda^{2} \\
\chi &= \chi \sin \zeta & \xi &= \xi \sin^{-1} \frac{y}{\chi} \\
\chi &= \chi \cos \zeta & \xi &= \xi \sin \zeta \\
&= \chi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta \\
&= \chi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta \\
&= \chi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta \\
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\chi &= \chi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta &= \xi \cos \zeta \\
\chi &= \chi \cos \zeta &= \xi \cos$$

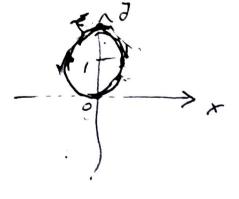
$$(7.0) = (2, \frac{20}{3})$$
 $(2, -\frac{40}{3})$
 $(-2, -\frac{50}{3})$

C(X+by=C) arcoo+brino=C r(acoo+brino)=C

7= C acoso +bsino

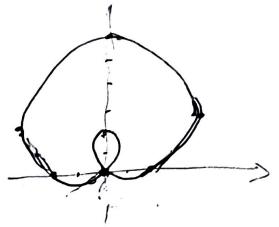
 $\frac{2}{3} \times \frac{2}{3} - \frac{1}{3} = \frac{16}{3}$ $\frac{3^{2} \cos^{2} \cos^{$

R= 2,2ino



 $\begin{array}{c|c}
\hline
 & & \\
\hline$

2=2+45,40



(413, -4) y= 75.40 X= 7 Coso = 403 Sin (-1) = 4/3 COD (-11) =-403 (=) = 453 (=) = -213 (X,y) = (6, -2V3) (7, 6) 2 12 (-1, V3) Q=tan 13 7=1 x2+72 = \$1+3 = \vec{\vec{J}} \(\sigma \in \vec{U} \vec{U} \) 221 $(\lambda, \sigma) = (2, 2\pi)$ X=Lwo 24 12= 4 co20 y=15ms = 4 (cos20_5, n20) 12=xleye 12 12 = 4/2 cos 20 - 125, m20) (x2+y2)2=4(x2-y2) x4+2x2y2+y4= Ux2 4y2

x 2492-4X 411 12 = 41 cood (1 to) 7 = 4 coso $y^2 - x^2 = 4$ 22 sin 20 - 12 coso = 4 12 (sind - cosd) =4 N2 = - 4 (5)20 Comp. (cx 8.7 you can Abx V-1 = L = ('(-1)(-1) Z = a + cib, maginary part
Real part Imaginary part
Re a,b ETR

1 2+40' Z = 2+di Z=X+17. 7=1×2-472 medulus O: Fan y Argument E= X + 14 = r ciso Truz Ferm = r ciso Z=-1+c 02 /an 1 = 0 7=1×2-492 0=50 = 1 / + /

-1+c= 12 cis (30) = 12 Cos 37 + (12' sin 30

= -61

(aushed
$$\frac{2_1 \text{ ais } d_1}{2_1 \text{ cis } d_2} = \frac{n_1}{n_2} \text{ ais } (d_1 - d_2)$$
 $\frac{10 \text{ cis } (-60^\circ)}{5 \text{ ais } (50^\circ)} = \frac{10}{5} \text{ cis } (-60 - 150)$
 $= 2 \text{ cis } (-210^\circ)$
 $= 2 \text{ c$

n the nort (r ciso) = Vr cisa x= 0+20k (Info) is throat -8+8:03 n = 1/64. + 64(3.) 0 = tan \$10 = - 1/3 D= 211 4 16 = 2 $\alpha = \frac{0 + 2\pi k}{n} =$ = 1 (25 +20k) (-+ k) $=\frac{\sqrt{3}}{2}\left(\frac{1}{3}+k\right)$ k=0 → ×= 7/6 k=1 -> x = 24/3 k=2 → x= +7/6 k=3 3 x = 54/3 2 as #, 2 as = , 2 cos 20, 2 cos 20, 2 cos 20

$$(7,0) = (4,300^{\circ})$$

31 $x (sind - 2 \cos \theta) = 6$ $x \sin \theta - 2x \cos \theta = 6$ y - 2x = 6

 $\frac{32}{\pi^2} = \frac{\partial \sin \phi - 2\cos \phi}{\partial x^2 + y^2} = \frac{\partial y - 2x}{\partial x^2}$

 $37 \left(x+2\right)^{2} + \left(y-3\right)^{2} = 13$ (rcod +2)2+ (rsind-3)2=13 12 coso + 42 coso + 4 + 12 sind - 625140 +9=13 12 (coto + 5, mlo) + 1 (Uwo -65mo) =0 72+12 (4000-65,no)=0 (r=10) 12 + 4 woo -6 sin 0 = 0 7 = 6 sui 0 - 4 coso / x2+ y2 h2 E Rand