$$\begin{cases}
x = 2 \cos t \\
y = n \sin t
\end{cases}$$

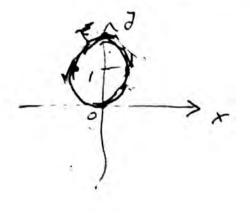
$$\begin{cases}
x = n \cos t
\end{cases}$$

$$x =$$

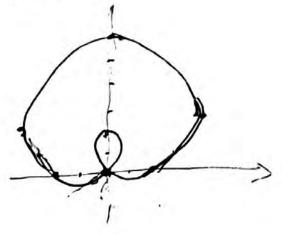
C(X + by = C $a \pi \cos \phi + b \pi \sin \phi = C$ $\pi (a \cos \phi + b \sin \phi) = C$

n= C acosotbsino

R= 2, since



2=2+45190



8.66 (413, -4) y= 75.40 X= 7 6000 = 403 Sin (-1) = 403 Cos (-11) =-413 (1) = 453 (0) = -213 (x,y) = (6, -213) | (7,0)? 12 (-1, V3) c=tan 13 121 X2+72 = \$1+3 221 (1,0)=(2,2m)(X=Lwo 24 72= 4 co20 y=15ms = 4 (cos20-5, n20) 12=xlege 12 12 = 4/2 cos 20 - 125, m20) (x2+y2)2=4(x2-y2) x4+2x2y2+y4= Ux2- 4,y2

00

x 24 y 2 - 4x 411 12= 41 cod (1 to) 7 = 4 coso y 2 - x = 4 22 sin 20 - 12 coso = 4 12 (sind - cosed) =4 12 = - 4 - (5) 20 | Comp. (cx you can Abx ,=1 v-1 = i.i # v-1 v-1 = i.i = i V-1 = L = 0'(-1)(-1) = a + ib, Realpart Imaginary part a, b ETR

Z = 2+di 1 , 2+40' Z=X+17. 7=1x2+y2 medulus O: fan 7 Argument E=X+iy = 1 ciso + i rsind Two Form = r ciso Z=-1+c Oz fan-1 = 0 7=1×2-492 0 = 50

-1+i'=12' cis $(\frac{30}{4})$ $=12\cos\frac{37}{4}+i'12'\sin^{3}$

$$Z = 2 \cos 60^{\circ} + i \cos 60^{\circ}$$

$$= 2 \cos 60^{\circ} + i \cos 60^{\circ}$$

$$= 1 + i \sin 60^{\circ}$$

$$= 1 + i \sin 60^{\circ}$$

$$= 7 + i \cos 60^{\circ}$$

$$= 6 \cos 60^{\circ}$$

= -61

(aushed
$$\frac{2, a's d_1}{\lambda_2 c's d_2} = \frac{\lambda_1}{\lambda_2} as (a_1 - a_2)$$

$$\frac{10 as (-60^{\circ})}{5 as (150^{\circ})} = \frac{10}{5} as (-60 - 150)$$

$$= 2 as (-210^{\circ})$$

$$= 2 cos (-210^{\circ}) + i' 2sin(210^{\circ})$$

$$= 2(-\frac{12}{2}) - i' 2(-\frac{1}{2})$$

$$= -137 + i'$$

$$= -137 + i' 257 = -137$$

n throat (rciso) = Dr cisa x= 0+20k (Info) is throst -8+8i13 n = 1/64. + 64(3) 0 = tan \$10 = -3 C = 211 1/16 = 2 x = 0+20k = = - (20 + 20 k) = = (++k) K=0 -> x= 17/6 k=1 -> x = 20/3 k=2 → x= 776 k=3 - x = 5 4/3 2 als #, 2 als = , 2 cis = , 2 est = , 2 est = ?

$$\begin{array}{lll}
S \cdot 6 \cdot 2 & (-17) \cdot \frac{35}{4} \\
x = 2 \cos \theta & 7 = 2 \sin \theta \\
= -\sqrt{2} \cos \frac{37}{6} & = -\sqrt{2} \sin \frac{37}{6} \\
= 12 \left(\frac{1}{12}\right) & = -11 \\
(x_1 y) = (1, -1) \\
(x_1 y) = (1, -1)
\end{array}$$

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\end{array}$$

$$(7,0)=(4,300^{3})$$

31
$$x (sind - 2 cosd) = 6$$

 $x sind - 2x cosd = 6$
 $y - 2x = 6$

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

37 (x+2) + (y-3) = 13 (rcop 0 +2)2 + (rsind -3)2=13 12 coso + 42 coso + 4 + 12 sind - 625170 +9=13 12 (coto + 5, 10) + 1 (UWO - 65mo) =0 72+2 (4000-65,no)=0 (x+0) 12 + 4 woo - 6 sin 0 = 0 7 : 6 suid - 4 coso / x2+7=12 & Rand