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Sección 1.6.6
  Punto 2
   a) cos(301 = cos (x) - 3 cos (x) sen2 (x)
   b) Sen (3x) = 3cos2 (x) Sen (x) - Sen3 (x)
       eia = Cosa + isena
       i3a = COS(3a)+; Sen(3a) 1.
      (eix) = (cos (x) + i sen (x 1)
  = (cos (x) + 3cos (x) isen (x) + 3 cos (x) lisen (x) } + (isen w)
  -7 (isen(al) = - sen(ac), (isen(al) = (-isen3(ac))
-> cos (x) + 3 cos (x) isen(x) - 3 cos (x) sen (x) - isen (x)
  (05°(x)-300s(x)Sen2(x),+ i,(300s(x)Sen(x)-Sen2(x)),
    cos (3x) = cos (x) - 3 cos (x) sen2 (x
    sen (301 = 30052 (01) sen(01 - sen3 (01)
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Ponto 5

Q)
$$\sqrt{2}i$$
, $r = 12il = 2$
 $\theta = \arg(2i) = \pi/2$
 $|-1|/2| = 2e$
 $\sqrt{2}i = 2e$
 $\sqrt{2}i = 2e$
 $\sqrt{2}i = 2e$
 $\sqrt{2}i = 2e$
 $\sqrt{2}e^{i\frac{\pi}{4}} = \sqrt{2}e^{i(\frac{\pi}{4}+\kappa\pi)}, k=0,1$
 $|-1|/2| = 2e^{i(\frac{\pi}{4}+\kappa\pi)} = 2e^{i(\frac{\pi}{4}+\kappa\pi)}$
 $|-1|/2| =$

(1)
$$\sqrt{-1}$$

$$| (\pi + 2\pi n) |$$

$$-1 = e$$

$$| (\pi + 2\pi n) |$$

$$| (-4) | = e$$

$$| (\pi + 2\pi n) |$$

$$| (-4) | = e$$

$$| (\pi + 2\pi n) |$$

$$| (-4) | = e$$

$$| (\pi + 2\pi n) |$$

$$| (-4) | = e$$

$$| (\pi + 2\pi n) |$$

$$| (-4) | = e$$

$$| (\pi + 2\pi n) |$$

$$| (\pi + 2\pi$$

e)
$$\sqrt[4]{-8} - 8\sqrt{3}$$
;

 $r^{3}\sqrt{256} = 16$
 $\theta : -\pi + \pi : -2\pi$
 $2 = 16e^{([-2\pi/3))}$
 $2 = 16e^{([-2\pi/3])} + 2\pi * 1/4$
 $\sqrt[2]{-(16)} e^{([-2\pi/5])} + 2\pi * 1/4$
 $= 2e^{([-2\pi/3])} + 2\pi *$

Punpo 6 a) Log (-ie) r> 1-iel = e, arg(-il= - I Log(-ie)= Ine+i (-II+21Th)=1-iII+21Tin N=0, 1-TI; b) Log(1-i) r= 11-il: 1/2 Ln2, arg(1-i) = - II 109 (1-i) = 1 Ln 121 + i (-# + 2TTn), n=0 1-1-12-11 2-12-11 c) log(e) r: e, ang (e) : 0 209(e) = Lne + : (0+271n) 1+277in 1+ 2TTIN, nez

d Log (i) r = |i| = 1, arg(i) = IILog (1) = Ly(1) + i (1 + 2TIV) 109(1) = (2n+1) Ti, n e Z