```
Lista 2 - Calculo I
                      11-2)+(1+31)
                  12+91
           , -10b=11
                            10
                                               Jandaia
```

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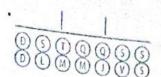
 $O\left(\frac{1+i}{3-i}\right)^{2} + \frac{1}{2} = \frac{1+i}{2} + \frac{1}{2} = \frac{1+i}{2}$   $\Rightarrow \left(\frac{1+i}{2}\right)^{2} + \frac{1}{2} = \frac{1+i}{2} \Rightarrow \left(\frac{1+2i-1}{2}\right) + \frac{1}{2} = \frac{1+i}{2}$   $= \frac{2i}{2} + \frac{1}{2} = \frac{1+i}{2} \Rightarrow -\frac{1+i}{2} = \frac{1+i}{2} \Rightarrow \frac{1}{2} = \frac{2}{2} + \frac{1}{2} = \frac{2}{2}$   $\Rightarrow \frac{1}{2} = \frac{2}{2} \Rightarrow \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{2}{2}$   $\Rightarrow \frac{1}{2} = \frac{2}{2} \Rightarrow \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{2}{2}$   $\Rightarrow \frac{1}{2} = \frac{2}{2} \Rightarrow \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{2}{2}$   $\Rightarrow \frac{1}{2} = \frac{2}{2} \Rightarrow \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{2}{2}$ 

 $d) = \frac{2^{2} - 4 + 2i}{5} = \frac{5va}{5} = \frac{2 - (a + bi)}{4 + 2i} = \frac{5va}{5} = \frac{2 - (a + bi)}{4 + 2i} = \frac{4 + 2i}{5} = \frac{4 +$ 

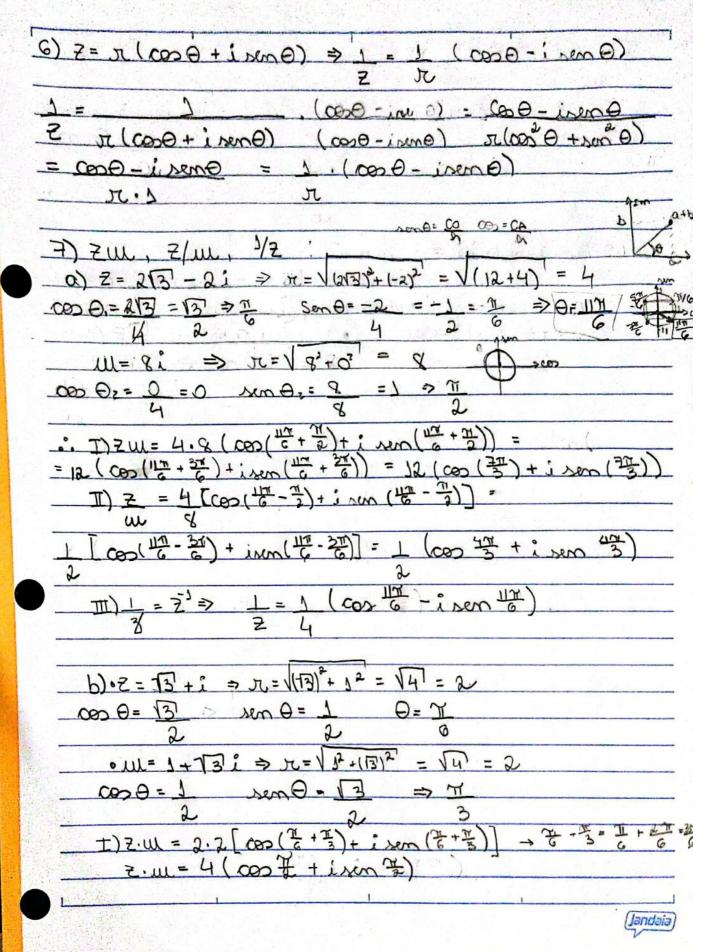
3) a)  $9z^{2} + 16 = 0$   $x = \pm \sqrt{-576} = \pm \sqrt{576} \cdot \sqrt{-1} = \pm 24 \cdot \pm 4 \cdot \pm 4$ 

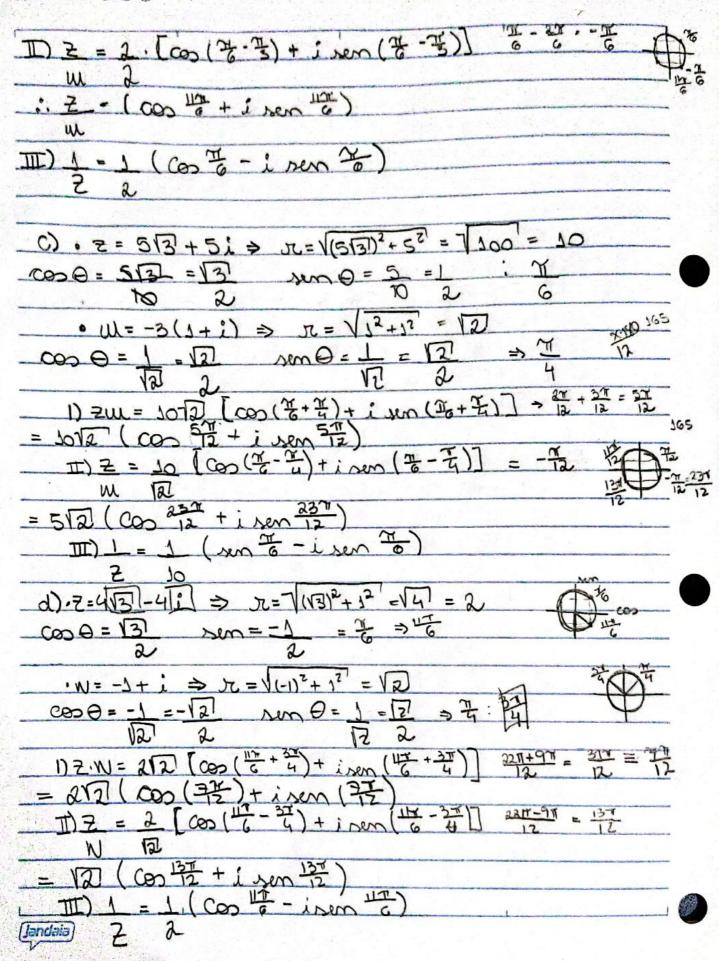
[Jandaia]

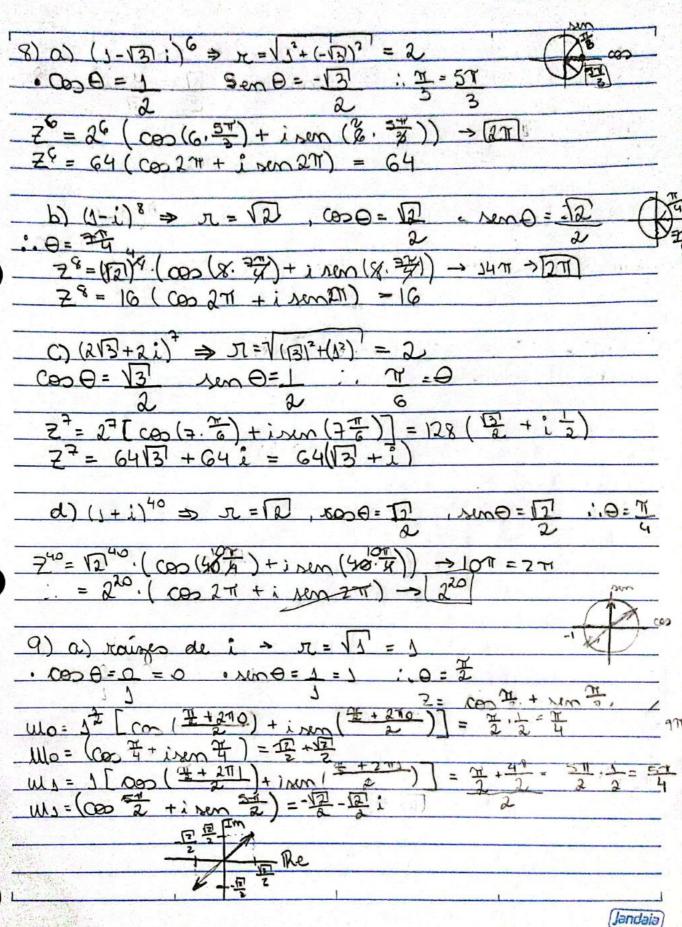
```
C) 22-22+1=0
 N= (-2)2-4.2.1
                                          2
 D=-4
                                                           Jandaia
```

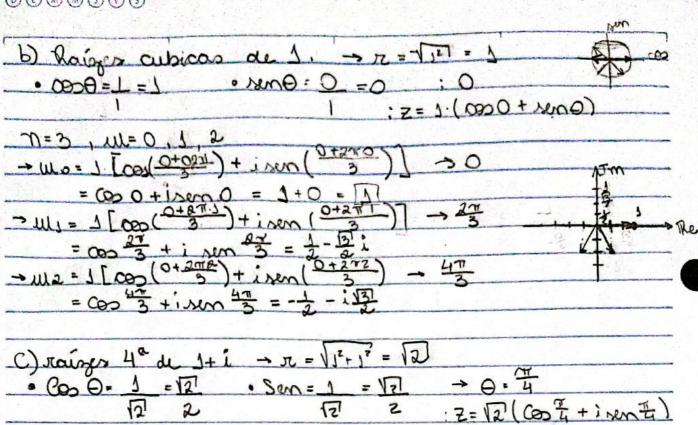


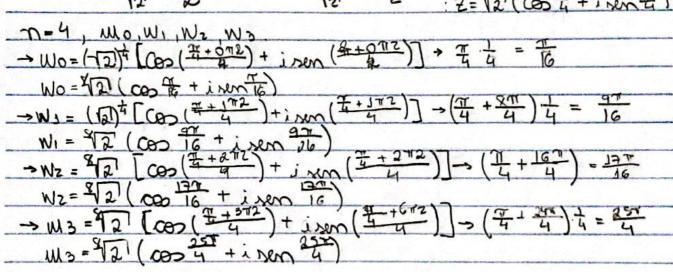
S) a) $ z =2$ B) $ z =2$ C $ z$	√87 ≤ 4 ⇒ Verdade √87 ≤ 4 ⇒ Verdade (2) 12172-1
$\frac{1}{ x } = 2 \rightarrow x_{-3}  y  e)   z+3  =  z-1  \rightarrow (x+3, y_1) \rightarrow (x-3, y_1)$ $\frac{1}{ x } \Rightarrow \mathbb{R}e  \frac{1}{ x } \Rightarrow \mathbb{R}e$ $e)   z+3    z   \Rightarrow (x+3, y_1)   z  $	5) a)  z =2 b)  z <2 C)  z
$\frac{1}{2} = \frac{1}{2} \Rightarrow x \Rightarrow y \qquad e)  12 + 11 =  2 - 1  \Rightarrow (x + 1, yi) \Rightarrow Re$ $\frac{1}{3} \Rightarrow Re$ $e)   2 + 1  \Rightarrow  2  \Rightarrow (x + 1, yi) \Rightarrow x, yi$	1/1/1/23 Re /#2 2
E   =   E   +   E   =   E   +   E	-4- The way of the state of the
(e)  Z+3 3 Z  → (x+1, yi)7 × , yi	x  z-1 =2 -x-2 y e)  z+1 = z-1 -> (x+1, y) = (x+1)
(e)  Z+3 3 Z  → (x+1, yi)7 × , yi	The na
	- Sike
	x = x + 1 $x = x + 1$ $y = x + 1$ $y = x + 1$
→ Re	$\frac{1}{15+210151} = \frac{1}{15}$
	→ Re
4 COL 1 COL	

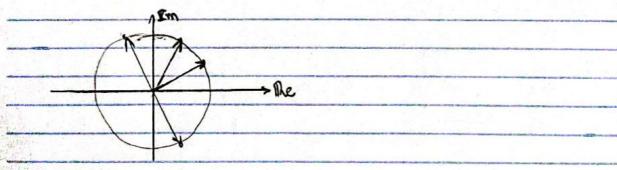






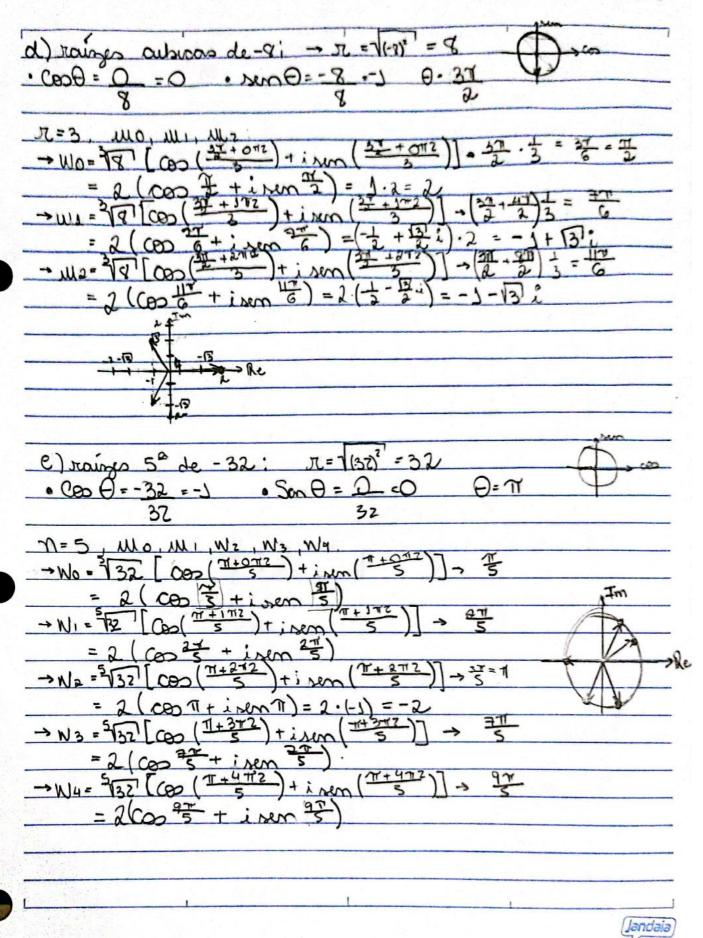






[Jandaia]





		man -
f) raises 6° de 64. → r. · Coo 0 = 64 = 1 · o sen 0 =	-64	Dien
· Coo 0 = 64 =1 0 sen 0 =	Q=0 0=0	Ψ
64	64	
n= 6, 411,0-2 ms		
~= 6, Mo → ms (+0+042)+i.m	(Q+OTZ) -= -= -= -=	
= 3((con 0 + i rem 0))	= 1.2 = 2	mta
= 2 (Cos O + i sen O)	0+142)]-3	5
2 (con 3+ i rem 3) = (=	+3)2=1+1308	+/
- N/a = VGY [cm ( 0+272 ) + i N/m	(0+2m2)] > 2r	+ + 50 1/2
$\frac{\partial}{\partial x} \left( \cos \frac{\partial x}{\partial x} + i \cos \frac{\partial x}{\partial x} \right) = 0$	+ (3) . 7 = -1 + (3)	
$\frac{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}$ $\frac{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}$ $\frac{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}{2(\cos \frac{\pi}{3} + i \times m^{\frac{3}{3}}) = (\frac{1}{2})^{\frac{1}{2}}}$	15 + 5 TZ + T	
$= 2(\cos \pi + i \cos \pi) = -1$	2. = [-2.]	
> W4 = 6/64 [cos ( of 4/6 ) + i run (	0+4172	
= 7 ( cm = + 1, m = 1 =	フィーナーショー ハーソコー	
- Ws = 464 [cos (0+5 TE) + isen	(0+SHZ) 7 - 11-7	
= 2 (cos = + i son =	一) -(1-學) 2= 1-13	
= & ( \( \omega \)		
b) eix = cos x + i senx		
K1x +11x/2 11x/3 = 1/2 x2	+:(x-x3)	
$x + 1x + (1x)^{2} + (1x)^{3} = .4 - x^{2}$	6	per la regioni de partir de la reconstruction de la
$1 \times + \times^{\circ} - 1 \times^{\circ} = - \times^{2} + 1 \times \cdots$	$-ix^{\frac{1}{2}} = ix - ix - x^{\frac{2}{2}} + x^{\frac{2}{2}} -$	13 -13 -0
2 6 2	6 2 2	6 6
→ 0=0 : seredad	entre de la company de la comp	C. Communication of the second of the
- 0 = 0 Notama		
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landaia		

