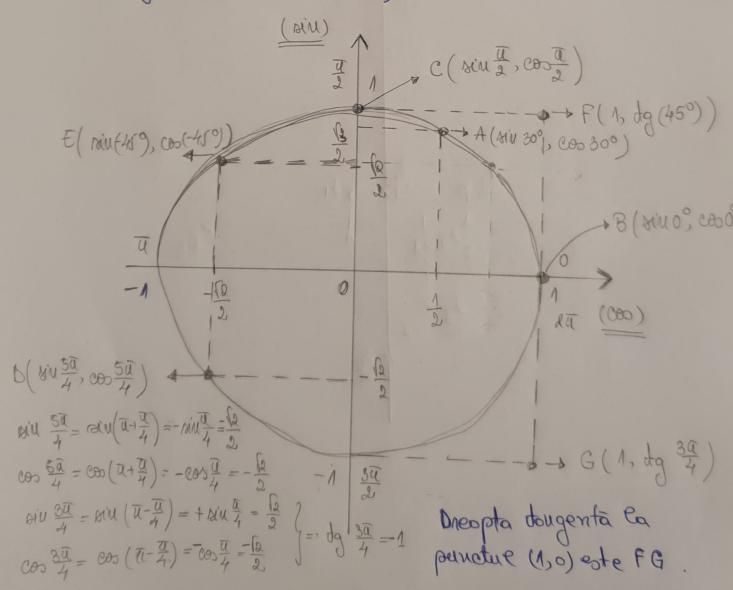
TEMĂ SEMÎNAR 7

1) R=1. beserrați dreopta dougentă la cere du punctule de coordenate (1,0).

Panote le de coord: $A(81130^{\circ}, Coo30^{\circ})$, $B(8110^{\circ}, Coo30^{\circ})$, $C(8110^{\circ}, Coo30^{\circ})$, $C(810^{\circ}, Coo30^{\circ})$, $C(810^{\circ}, Coo30^{\circ})$, $C(810^{\circ}, Coo30^{\circ})$,



(2)
$$a_1 = 1 + j$$

 $Re_{a_1} = 1$, $Ju_{a_2} = 1$

$$\lambda_2 = 1$$

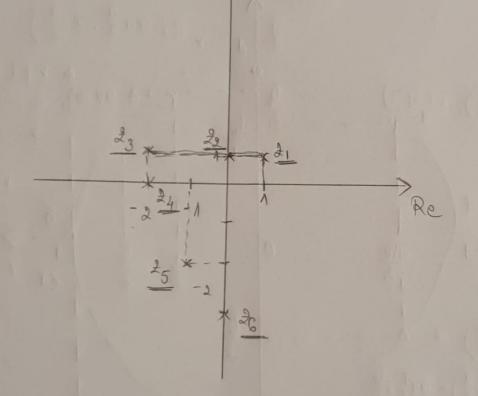
$$Re_{\lambda_1} = 0, \quad Tu_{\lambda_2} = 1$$

$$2u = -2$$
 $Re_{2u} = -2$, $Ju_{2u} = 0$

$$25 = -1 - 25$$
 $Re_{25} = -1$, $Jm_{25} = -2$

$$26 = -3j$$

 $26 = -3j$
 $30 = -3j$
 $30 = -3j$



Jun

$$|\mathcal{A}_1| = |\mathcal{A}_2|, \quad |\mathcal{A}_2| = |\mathcal{A}_3|$$

$$|\mathcal{A}_1| = |\mathcal{A}_3|, \quad |\mathcal{A}_3| = |\mathcal{A}_3|$$

$$d_{2} = e^{\sqrt{4}}$$

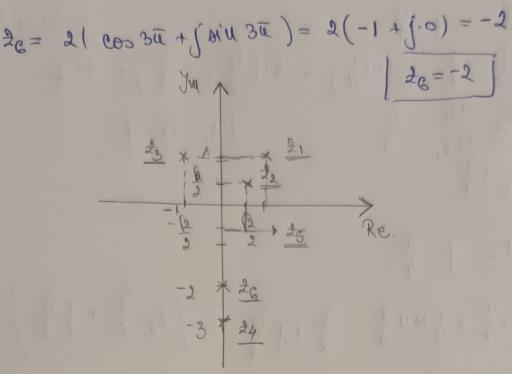
$$|d_{1}| = 1, \quad f = \frac{\pi}{4}.$$

$$d_{2} = \cos \frac{\alpha}{4} + \int 8i u \frac{\alpha}{4} = \frac{6}{2} + \int \frac{12}{2} = \int \frac{1}{2} \frac{1}{2} \frac{1}{2} = \int \frac{1}{2} \frac{$$

$$|a_3| = 2$$
, $\int = \frac{3a}{4}$

$$24 = 3(\cos \alpha + \int \sin \alpha) = 3(-1 + \int 0) = -3 = 1$$

$$25 = \frac{1}{4} + \frac{1}{3} \sin \left(\frac{-u}{4} \right) = \frac{2}{3} = \frac{1}{2} - \frac{1}{2} = \frac{1}{3}$$



(4) forme polare. Modul à orgament pe deser. $\frac{1}{4} = 2$, $\operatorname{Re}_{2} = 2$, $\operatorname{Jul}_{2} = 0$ = cadron $\overline{1}$ $\frac{1}{4} = 2$, $\frac{1}{4} = 2$ $\frac{1}{4} = 2$, $\frac{1}{4} = 2$, $\frac{1}{4} = 2$, $\frac{1}{4} = 2$, $\frac{1}{4} = 2$

23=1', Red=0, Jud3=1 > cadronul I f= end $g=\frac{1}{0}=$ end $g=\frac{\pi}{2}$, |2g|=1ta= e 1 2 24=-1+j, Rez=-1, Juz=1 = codron 1 1 = ordo = + a = - \frac{a}{4} + a = \frac{3a}{4}, |24| = 12 24 = 120 J. 34 25=-1-j, Rezg=-1, Ju 2g=-1 = codocou III $f = \text{and} = \frac{1}{4} + \bar{\alpha} = \frac{3\bar{\alpha}}{4}, |2\bar{\beta}| = \bar{\beta}$ 25= (2. e) 4 16=-1-2y, Rez=-1, Juz=-2 => ecotron(II) 9 = and = 2 + a = and 2 + a = 1,107 rad + a rod = 1 rad ... 180° =(15107+II) Had × rod 63 1201= 144=15 sau 26= 15. eg (1,107+a) anoto 3 ≈ 63°C 26= 18. 62. 133

$$2 = 2 \cos 0 + 2 \int 8^{10} 10$$

$$2 = 2 \cdot 2 \cos 0 + 2 \int 8^{10} 10$$

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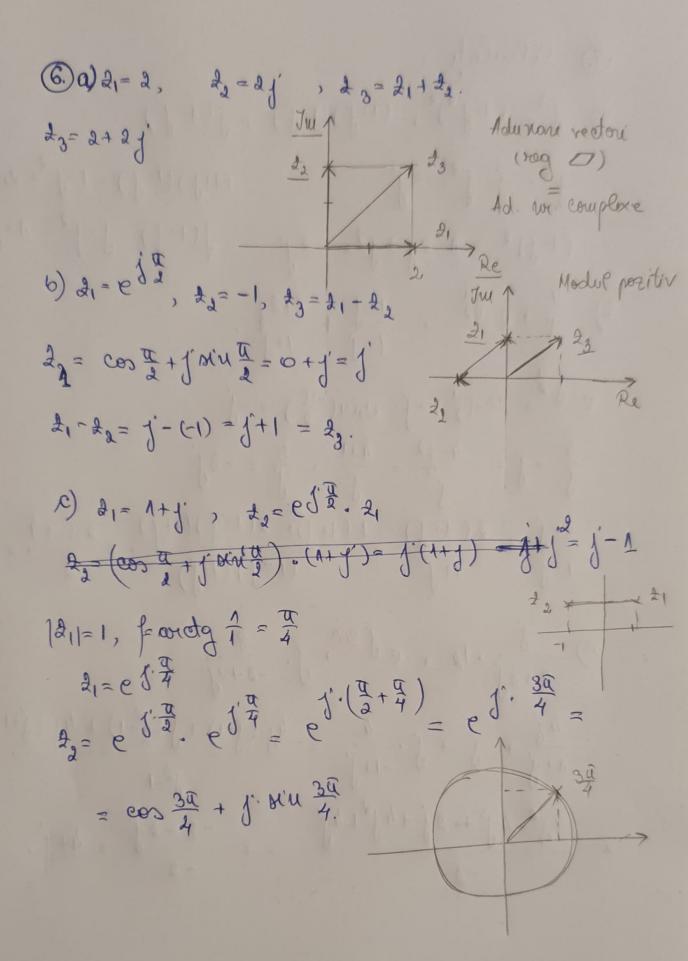
$$2 = 2 \cdot 2 \cos 0 + 2 \int 8^{10} 10$$

$$2_1=4 \cdot (\cos \frac{\pi}{2} + j \cdot \sin \frac{\pi}{2}) = 4 \cdot (0+j \cdot 1) = 4j'$$
.
 $2_1=4 \cdot (\cos \frac{\pi}{2} + j \cdot \sin \frac{\pi}{2}) = 4 \cdot (0+j \cdot 1) = 4j'$.

$$\frac{1}{2} = 2(\cos(-\bar{u}) + \int_{-\infty}^{\infty} c\sin(\bar{u})) = 2(-1 + \int_{-\infty}^{\infty} c) = -2$$

$$d_3 = 2 \cdot (\cos(-\frac{3u}{4}) + 1 \cdot \sin(-\frac{3u}{4})) = 2(-\frac{12}{2} + 1 \cdot -\frac{12}{2}) = 2$$

$$24 = 2(\cos \alpha + \int \sin \alpha) = 2(-1 + \int \cdot 0) = -2.$$



a)
$$j^3$$
, $(n-j^2)^2$, $(1+j^2)(1-j^2)$, $j(n-j^2)$
 $j^3 = j^2 j^2 = -j$
 $(n+j)(1-j^2) = 1-j^2 = 2$
 $(n-j)^2 = n-2j^2 + j^2 = -2j$
 $(n-j)^2 = n-2j^2 + j^2 = -2j$

6)
$$\frac{4}{3}$$
 + e $3\frac{1}{2}$, $\frac{1+3}{1-3}$ + $\frac{2+23}{1+3}$.

$$e^{-j\frac{\pi}{2}} = cos(\frac{\pi}{2}) + j \cdot cos(u(-\frac{\pi}{2}) = -j$$

$$\frac{4}{j} - j = \frac{4-j^2}{j} = \frac{4+1}{j} = \frac{5}{j} = -5j$$

$$\frac{1+j}{1-j} + \frac{2(1+j)}{1+j} = \frac{1(1+j)+2(1-j)(1+j)}{2} = \frac{2j+4}{2} = j+2$$

$$\frac{3}{3+3j} \cdot 12 + e^{j \cdot 90^{\circ}} + j \cdot \frac{8}{-2+2j}$$

$$\frac{4j}{1+j} + j + j \cdot \frac{4}{-1+j} = \frac{4j'(j-1)+j'(j-1)+4j'(j+1)}{j^{2}-1}$$

$$\frac{4j'^{2}-4j'+2j+4j'^{2}+4j'}{-2} = \frac{-8-2j'}{-2} = \frac{4+j}{-2}$$