

INSTITUTO POLITÉCNICO NACIONAL ESCUELA SUPERIOR DE COMPUTO



LISTA DE EJERCICIOS 1-12 SEMANA 3

NOMBRE DEL ALUMNO: GARCÍA QUIROZ GUSTAVO IVAN GRUPO: 4CV3

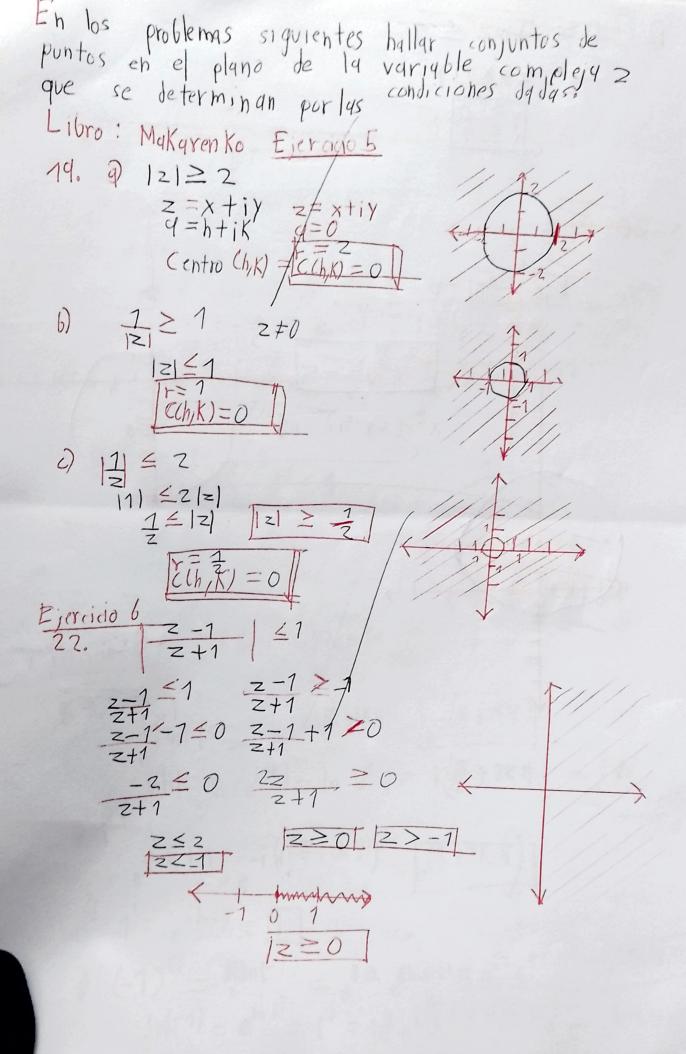
MATERIA: MATEMATICAS AVANZADAS PARA LA INGENIERIA

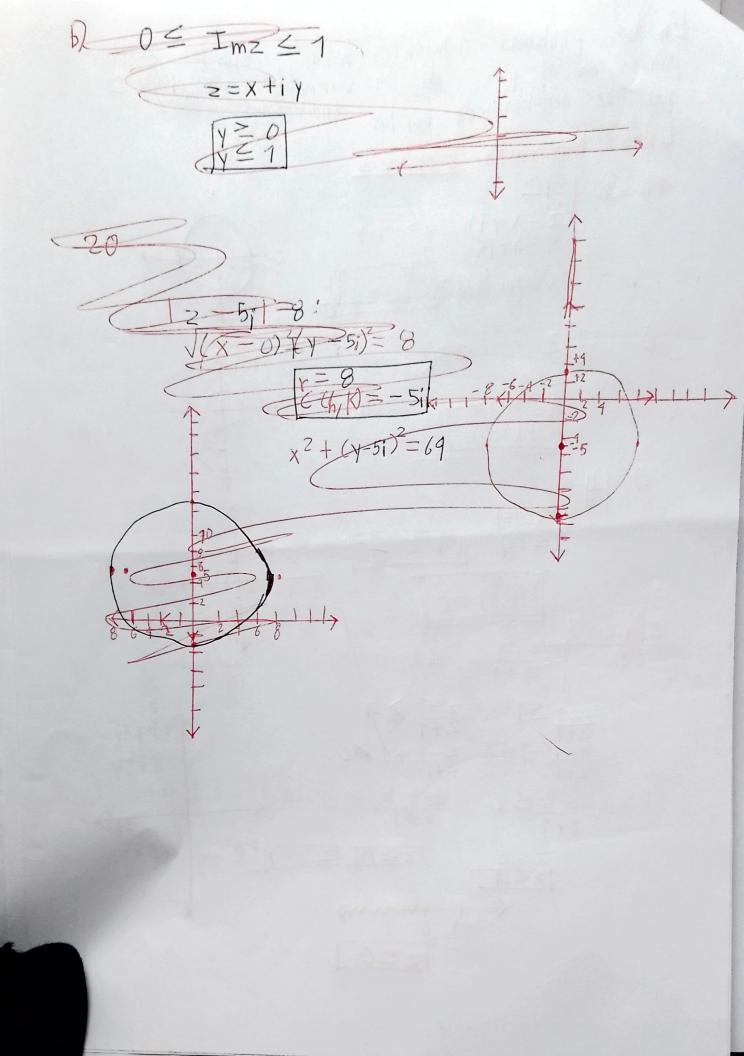
NOMBRE DEL PROFESOR: MARTINEZ NUÑO JESUS ALFREDO

FECHA: 14/03/2023

1.700 Libro Schaum Ejercicio 1 Tom Diex And lisys 7.700 Libro Schallis signientes. Encuentre todas las raices
Resuelva las eccuciones signientes. Encuentre todas las raices $\frac{212-2!\sqrt{4-4(5)(10)}}{2(5)} = -\frac{1}{5} + \frac{1}{10} = -\frac{1}{5} + \frac{11}{10}$ $\frac{1}{212-1} = -\frac{1}{5} + \frac{1}{10} = 0$ $\frac{1}{10} = \frac{1}{10} + \frac{1}{10} = 0$ $\frac{242 = -ik!(-2)^{2} - 4(3-i)(1)}{2(1)} = \frac{-i+2+\sqrt{3}-4i-12+4i}{2}$ -i+2+i3=21,22 $\boxed{21+1+i}$ $\boxed{22=1-2i}$ 1. 101 Resulva Elercicio Z 25-129-2+62-4=0 Pivisión Stintetica 1-2-106-9 11 1-1-2-2 9 0 11 10-2-9 1 10-2-9 0 0 12 2 9 9 0 0 $(z-1)^{2}(z-2)(z^{2}+2z+2)$ $7_{1,2} = \frac{-2 \pm \sqrt{4 - 4(2)}}{(2)(1)} = -1 \pm i$ 21=1 22=11 23=2/29=1+1/25-1-1

1,102 Encogentre todas la raices de 29+22+1=0 $21/2 = -1 \pm \sqrt{(1)(1)} = -1 \pm i\sqrt{3}$ $\sqrt{2} = \frac{1+1\sqrt{3}}{2}$ $\sqrt{2}$ $(z^2)^2 \left(-1 \pm i\sqrt{3}\right)^2$ 29 = (-1 ± 153) $2n = (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (-1 \pm i\sqrt{3})^2 = (i4)^2 (\cos(2\pi) + i\sin(2\pi)) = \pm (i4)^2 (\cos(2\pi) + i\cos(2\pi)) = \pm$ $\frac{234}{2} = \frac{-1 - i\sqrt{3}}{2} = \frac{1}{\sqrt{2}} \left[\frac{\sqrt{2}}{2} \left(\cos \left(\frac{4\pi}{3} \right) + i \sin \left(\frac{4\pi}{3} \right) \right) \right]$ $\frac{234 = -1 \pm i\sqrt{3}}{234 = -1 \pm i\sqrt{3}}$ $23A = \frac{1}{2}(-1 \pm i\sqrt{3})$ 7,109 4=x ty 12+8-4y=0 $Y_{12} = \frac{4 \pm 116 - 9(8)(1)}{2(1)} = \frac{4 \pm 14}{2} = \frac{4 \pm 14}{2} = \frac{2 \pm 12}{2}$ ×1,2=4-2±2/





$$0 \leq \lim_{z = x + iy} |z| \leq 1$$

$$|z| \leq 1$$

$$0 \leq y \leq 1$$

$$|z| = 1$$

$$0 \leq y \leq 1$$

$$|z| = 1$$

$$|x| = 1$$

$$|$$

F)
$$(\sqrt{3} + \frac{1}{2})^{1+i} = e^{(1+i)\ln(\sqrt{2} + \frac{1}{2})} = e^{(1+i)\ln(\sqrt{2}$$

Características de los Diodos

7.
$$\frac{2}{2} + \frac{1}{12} - \frac{2}{2} = 0$$
 $\frac{2}{2} + \frac{1}{12} - \frac{2}{2} = 0$
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 $\frac{1}{2} + \frac{1}{12} = 0$
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