1 21 = J440 - 991 φ = arctg 14 19 10 (cos ( arcts 1/4 ) + i sin ( arctoin 1/4 ) 19 10 ( cos(0,1148)+ isin(0,11,48)) = 0,86 + 9,09 c 3agara # \$3 Z=-4 = -4+0.i 121= 516 = 4 a <0 6 ≥0 => kp = Th - outcts [ ] = 11-0= 11 = 3,14

 $\begin{cases} x_{1} - x_{2} - 2x_{3} + 3x_{5} = 0 \\ -x_{1} + x_{2} + 2x_{3} - 3x_{5} = 0 \\ -x_{1} - x_{2} - 2x_{3} + 3x_{5} = 0 \\ x_{1} - x_{2} - 2x_{3} + 3x_{5} = 0 \end{cases}$ 1-1-203 | 1-1-20
1-1-203 | 0000
1-1-203 | 0000 00000 1-1-203 00000000 0 0 \*1 ×2 ×3 ×4 ×5 1x, -1c, -2c2 +0c5+3c4=0 x1 = AC1 + 2(c2 - dC3 - +3C4 1= 1 C1 + 0 C2 + 0 C3 + 0 C4 15 = 0 C1 + 1 C2 + 0 C3 + 0 C4 \*4 = 0 C1 + 0 C2 + 1 C3 + 0 C4 15 = 0 C, + 0 C2 + 0 C3 + 1 C4

3agara # 2 1 ×1 - ×2 + 8×4 - ×5 =0 ×2 - 2×3 - 3×4 + 5×5 =0 9 x3-x2 + x3 + 3x4-3x5=0 1 - x1 + 2x3+ x4-4x5=0 -2+1+2+2-2+3-6+4+6+5=0 x, x2 x3 C, C2 1 -1 0 2 -1 11-102-11 0 1 -2 -3 5 0 1 -2 -3 5 1 -1 1 3 -3 0 0 1 1 -2 0 0 0 0 0 -2 2 -2 -6 6 0 0 0 0 0  $\begin{cases} x_1 - x_2 + 2c_1 - c_2 = 0 \\ 9 \times 2 - 2x_3 - 3c_1 + 5c_2 = 0 \end{cases} \Rightarrow \begin{cases} x_3 = -c_1 + 2c_2 \\ x_3 \neq c_1 - 2c_2 = 0 \end{cases} \Rightarrow \begin{cases} x_3 = -c_1 + 2c_2 \\ x_3 \neq c_1 - 2c_2 = 0 \end{cases} \Rightarrow \begin{cases} x_3 = -c_1 + 2c_2 \\ x_3 \neq c_1 \end{cases}$ X1=-1 C1 + 0 C2 x2=1 C1 - 1 C2 x3= x(1 + 2 C2 x4= (C1 + 0 C2 x5= 0C1 + 1 C2

108 area 4 108 - x2 - x4 + 4x5 = 0 11 + x4 - 4x5 = 0 11 + x4 - 4x5 = 0 12+ + x5 + 25 = 0 15x1 - x2 - 2x5 - x4 + 2x5 = 0 - X1+2+2++3+2×4-4x5=0 x1 +2 ×3 C1 C2 1-40-14 0101-4 0 1 0 1 -4 0 0 1 0 1 -2 0 1 0 1 0 0 0 0 0 3 -1 -2 -1 2 00000 1212-4 1x- x2-C1 +4C2=0 ( x1= 0 X = OC, + OC2 X2= -1C, + 4C2 x3 = 0 c4 - 1 c2 x4 = 1 c4 + 0 c2 x= 0e, + 1/c2

Bagara # 6 (x1 - 2x2 - 2x3 - 2x4 - 6x5 =0 x1 - x2 - x3 - 2x4 - 4x5 =0 9 Ke + 2x3 + 3x5=0 -3x1 + 5x2 + 5x3 + 7x4 + 16x5=0 - 5x, +4x2 +4x3 +11x4 + 25x5 =0 11-2-2-2-6 | 1 -1 -1 -2 -4 | 0 1 1 0 2 | 0 1 2 0 3 ~ 0 0 1 0 1 | -3 5 5 7 16 | 0 0 0 1 0 00001 -5 7 4 11 25 1×1-2×1-2×3-2×4-6×5 =0 X2 + K3 + 2x5=0 1×3+×5=0 =) ×1=×2= ×3=×4=×5=0 => OPCP He WHELM