2 Détermine el volor de les componentes que integro a squerte dipelo, solvandes que solufoce la impedance prispuesto

R2

$$Z(s) = \frac{(s^2 + s + 1)}{(s^2 + 2s + 5)(s + 1)}$$

$$Y(s) = \frac{(s^2 + 2s + 5)(s + 1)}{s^2 + s + 1} = \frac{s^3 + 3s^2 + 7s + 5}{s^2 + s + 1}$$

Socie un poles de infintes poro hollor el voler de Cr

Colcules vardus en infinites

$$k_{\infty} = lm \quad y(s) \quad lm \quad s^3 + 3s^2 + 7s + 5 = 1$$
 $s = s^3 + s^2 + 5 = 1$

$$Y_{A}(S) = Y(S) - K_{\infty}S = S^{3} + 3S^{2} + 75 + 5 = .5$$

$$y_{o}(s) = \frac{2s^2 + 6s + 5}{5^2 + 5 + 1}$$

$$Y_B(S) = Y_A(S) - 2 = 2S^2 + 6S + 5 = 28$$

1

0

CS CamScanner

 $Z.8 = \frac{5+5+1}{45+3}$ Etroige un polo en infinto poro colteros 42 Colcules renders 800 - On 2.8(5) - On 5-000 54541 1 $\frac{7c}{2} = \frac{28 - k \cdot 0.5}{45 + 3} = \frac{5^2 + 5 + 1 - 1}{45 + 3} = \frac{1}{4} = \frac{1}{4}$ Zc(s) _ 52+5+1 - 25(45+3) _ (5)+5+1+52-35 95+3 25+1 20(5)= وي حوا obtenes el volen de 16 (/ 1 (S+3) 5+3 5+3 165 + 1 Zo(5) = Ze(5)-16 Zols) YD (2) S 5.64 + 48 13

