Exercicio LAPIACE 21.10.2021 Calsiel & Ulumhoz 1) ponilo Ribelato  $(d^3 y / d t^3) + 6*(d^2 y / d t^2) + 11*(dy/dt) = 1;$ y(0) = y'(0) = y''(0) = 0y'''(t) + 6 + y''(t) + 11 + y'(t) = 1 y(0) = y'(0) = y''(0) = 0[53 /(s) - 52 /(o) - 5/(o) - 4/(o) ] + 6.[52 /(s) - 5/(o) - 4/(o)] + 11[5/(5) - /(0)] = 1/5  $5^{3}$   $\sqrt{(s)}$  + 6  $5^{2}$   $\sqrt{(s)}$  + 11 5  $\sqrt{(s)}$  = 1 $\frac{1}{2}$  $\sqrt{(5)} = (5^3 + 65^2 + 115) 5$ 53+652+115=0 1 RAZ iguel A zerc e Z complexAS s (52 + Qs + 11) = 0 52 + Cos + 11 53 + 652 + 115