Andy Rodriguez 15001276 Problema # 4 24/02/2027 Colouar función Camateristica  $\frac{1}{5} \frac{d^2x}{dt^2} + \frac{2}{5} \frac{dx}{dt} + x = y + z \frac{dy}{dt}$ Por Superposición des = h.(4) + he lt1  $\frac{1}{5} \frac{d^2x}{de^2} + \frac{2}{5} \frac{dx}{de^2} + x = y$ K=1  $T^2 = \frac{1}{5} \sqrt{50} T = 0.4472$  $ZDT = \frac{2}{5} \rightarrow D = \frac{2}{2(5)(T)} = 0.4472$ D' = (0.4472) = 0.19998 ~ 0.2  $a = -\frac{D}{T} = \frac{0.4472}{0.4472} = -1$   $b = \sqrt{1 - 0^2}$   $\sqrt{1 - 0^2}$ hut]= 1-11+(-1)2 e-tcos (26++an-1(-2)) K, (4)= 1-1.118 e + cos (24-26.57°)

