

and the second s Karatur, 10 penneture 3 agareir Rouce gant no 5 veto Egurcoberrum 6) y'''=x+y². Da, zagagiun y'(xo)-que racatius, a 4"(80) nyoto sygys rayrwanu. Torga sygys maxogusto repet (x0, y0), na contoca, no Sygnes paytonne pomeniame  $y^{(n)} = x + y^2$ , y(0) = 1, y'(0) = 21/y1=x+y2=> 2=0+1=> permeture thet 2) y'=x+y2 -> equivorbeture no Th. Munajo-My 3) y'' = x+y2 -> Decuonero uroso N234 n=1: tet, T. K. oru repeceuaros à 6 (0,0) n = 2: ret, T.u. vacatoral n=3: Het, T.K. X" (r=0 = (sinx)" | x=0 n=4: ga, T.M. 3 maybognore uneror

payeure zuoverus a)y'=-y2; y(1)=-1 (y=0)-ocosoe remerme dy \_ - dx => - 1 + c = - x 1-1 C= X = > y = 1 x + C  $-1 = \frac{1}{1+c} = > c = -2 = > y = \frac{1}{x-2}$ Herrogouxaluol remeture  $5) y' = 3\sqrt[3]{y^2}$  y(-4) = -1 y(2) = 1 $\frac{0}{y^{\frac{2}{3}}} = 301x = 3y^{\frac{1}{3}} = 3x + C = 3y = (x + C)^{3}$ 

 $-1 = (-4+c)^3 = -2 = -3$  $L = (2+0)^3 = 2^{-1}$  $y = (x + 3)^3, y < 0$ y = 0, y = 0 - 0 couse remerce  $y = (x - 1)^3, y > 0$ Bayrore (a) peuverue grabrerue 2 agatitel agraphatico agruer youbern, T. U. Dro ygobierbopaet youblieve Th. 17-1, rero render chajart o curral (5)