Duggo Spalucue KAPACEBA. Xy = y(lny - lnx) M3135 x+0 y= y. /n x  $z = \frac{y}{x} \iff y = zx \iff \frac{dy}{dx} = \frac{dz}{dx} \cdot x + \frac{dx}{dx} \cdot z$ dz.x+2=2./nz dz.x = 2./n2-2  $\frac{dZ}{2\ln 2 - 2} = \frac{dx}{x}$ Musepum: 2/n2-2=0. Z/m2-1)=0 [7=0, => y=0 y=0 - penceune Jalna-Z = Jalx  $\int \frac{dz}{z(\ln z - 1)} = \int \frac{dx}{x}$  $\int \frac{d(\ln z - 1)}{(\ln z - 1)} = \int \frac{dx}{x}.$ In/1/2-11= /M/X/+C Duder: In/In/x-11=In/x+C. 920. y = ex.

[12] 2x+3y-5-1(3x+2y-5)y=0 (2x+3y-5)o(x+(3x+2y-5)aly=0 1/2 x + 3y - 5) = 3 3(3x+2y-5)=3Sharuns and y-nue gugge ef enguana 7 u(x,y) = c 1 dy = 2x+3y-5 1 2 3x +2y -5 Ju = 2x +3y-5-> U(x,y) = S(2x+3y-5)olx + Cly u(xy) = 4(2x+3y-5)2+ c(y) 900px 3y = 24.2(2x+3y-5).3+C(y)= = 3/2 (2x+3y-5)+ c'(y) 3x + 3/2 y - 15/2 + e'(y) = 3x + 2y - 5 c(y) = - 2 y + 5/2 c(y) = - = 5 /(y-1) dy = - 4 · (y-1) 2 + A On Bems (1(2x + 3y -5)2 - 4(y-1)2 - A

2'= 6.4'. y' <-> y'y'= 3 y.y= 3x.y + x2 = 2 /·6 Z = 4/x . 2 + x2  $7 = (c + \int x^2 \cdot e^{-\int \frac{a}{2} x} \cdot dx \cdot dx) \cdot e^{\int \frac{a}{2} x} dx$   $7 = (c + \int x^2 \cdot e^{-\int \frac{a}{2} x} \cdot dx) \cdot e^{\int \frac{a}{2} x} dx$ 2 = (e+ ) x. x . dx). x4 Z = (C + x -1). x4 Z = CX4 - X3 46= Ex4-x3 y= 5/C X4 - X3

[NG] Accumency = y(t) m+R no yeroscero ecneemsamoro megacina y=ny+mt 7 4-ny+mt (=> dy = ny+m oll = nu +m Jalu = Solt n In Inu+m1 = t +c Ho In In 4+ml = nt +e nu+m = C.e n(ny+mt)+m - c.e  $n^2y + mnt + m = c.e.$   $y(t) = c \cdot e - \frac{m}{n} - \frac{m}{n^2}$ J k mercenny t=0. Energy rumenen = Ao u c moro morenna narunaemen murpayne  $y(0) = C - n^2 = Ao$   $\Rightarrow C = Ao + n^2$ Do unpayeer pyryer some menon:  $y(t) = (A_0 + \frac{m}{n^2}) \cdot e - \frac{m}{n} - \frac{m}{n^2}$ A uno ujuenume hoene narane murjenyun? y(t) = hy + mt + Rt = ny + (m+R)t

N#) w(t) - 800 Kanner  $w(t) = -m \iff w(t) = -mt + c$ w(0) = C = M w(t) = M- mt François Augustinia 471R3

W(t) = V = 3  $R^3 = \frac{3W}{4\pi8} = 3 R = \sqrt[3]{4\pi8}$  $S = \frac{24\pi R^2}{36\pi^2} = 4\pi \sqrt[3]{\frac{9w^2}{16\pi^2}} = \sqrt[3]{\frac{36\pi}{8^2}}$   $= \sqrt[3]{\frac{36\pi}{3^2}} \sqrt[3]{\frac{3}{3}}$ А - конетанта F= K. V. A. W2/3 v= 0+ at Q = w(t) g - F = g - K v. A · w 13 g - kvA 25= (9- K25A)+ v= gt - Kt 25A = gt - Kt 25A v(1+ kt / = 9t V= gt (M-mt) M-mt+xtA Onilem: 25 = gt(M-mt) M-mt+K. 3\\ 3671'+