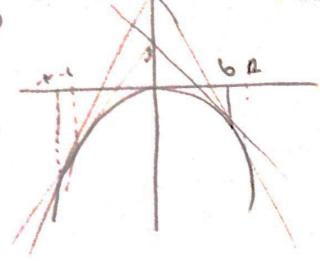
lincer: y'+p(x)g = q(x) = > (k=y)-x Riccot: y'= p(x)y=+ Q(a)y+R(x) => y, bir occl cocon onel coce; J= y++ (1) y' = 2 tonx sec x - y' sinx y'= secx =) genel assim nedici? (1) p(x) == sinx, Q(x1=0, R(x) = 2 tenxseex (2) y=y,+1= secx+1 ( secx+anx-v' = 2.+onx secx-sinx ( secx+1) = 2 tanx. seex -sinx (sec2x+2seex. 1) y'= secxtonx -u' Sec x tonk - U' = 2 tonx Se Lx - Sing sec x - 2 sinx secx @ -ns the conbidons U'-2. SINX U=SINX (Pineer old) (5) int garponi e sosx dx = e lasx @ Genel azz on: U = 1 [ Costx. sinx dx+c]  $y = secx + \frac{3\cos^2x}{(3c - \cos^2x)}$ 3. Bölim Jüksek Dercceden Diterensigel Denklemler y = xy'+4') 1 Mertebe:1 y=xy'+3(y')2 gmel azzono 1 y= cx+3c2 Dogro Pontimi) (Teurl (egkin) )  $y = -\frac{x^2}{12}$  He by deallenin baska bir azzimidir. J' = - x 7 (y') = x2



Toreve Gere Gözülen Denklemler

$$0 = \frac{dP}{dx} \left( x + f(P) \right)$$

@ y = xy' + 3(y') letil assome but. Oy'EP 10 y'= 1.p+x.p'+6p.p' (3 p= p+p' (x+6p) 0 0 = p'(x+6p) ( p'=0 =) p=c =) y=x.c+3()2 = cx+3c2=yg X+ 6p=0 =1 [x=-6p =) y=(6p)p+3p2=1-3p2=y Aykırı aszaman parametrik yozılışı; pilri yor edelim. (a) y= xp+(1+p²) genel abzom ve vorse ogkin desemine your (b) p'=0 =) p=C (c) clairent dif. dentlemidin (c) p'=0 =) p=C (d) p'=0 =) p=C (e) gene toren aline (f) henel cozomiy = cx+ (1+c) 6 Aylun Crozin; @ y'=1.p+xp'+ PLp.p' DX = -P B y=x pt/1+pi 3 0=p'(x+ P) (2)  $x^2 = \left(\frac{-\rho}{\sqrt{\eta_1} p^2}\right) = \frac{\rho^2}{4\pi \rho^2}$   $y^2 = \left(\frac{1}{\sqrt{\eta_1} p^2}\right)^2 = \frac{1}{1+\rho^2}$ (13) x+y2 = 1 (genber denklemi) Problemier 1) y = xy' + 1, , c, y2 = 6x 2) y=xp+phalp), C; y=-e-x-1

3) (y-xy') = (y' C: y=xy'+2Vy'

Lagrange Det Drak

Send: 
$$y = x + (y) + g(y)$$

Set linded it.

 $y = x(y)^2 + 3(y)^3$ 
 $y = x(y)^3 + x(y)^3$ 
 $y =$ 

10) 
$$\int (p-1)^{2} \frac{3p}{4p} dp = -3 \int (p+1) p dp$$

$$= -3 \left( \frac{p^{2}}{3} - \frac{p^{2}}{2} \right)$$

$$= -3 \left( \frac{p^{2}}{3} - \frac{p^{2}}{2} - \frac{p^{2}}{3} \right)$$

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