N2, 1 enlenz-1) = enx+c => lult = 1 => 1: 12 Omben: lule 4 - 1/ 1/4+C, y= 1x N2.2 2x +3y-5 + (3x+2y-5) y'=0 \$ 2x484 500 [x=1+X dx=dx] (5) y = 2x+38-5 = 2(1+X) + 3(1+4) -5 = 2X+84 2+34 3+24 y'=t+tix = 2+3t =>+1x= 2+2t (=) => \frac{3 + 2t}{2 - 2t^2} dt = \frac{1}{x} dx \frac{y}{x} = \frac{t}{x} 4) - 1 en | 4 - (8-1)2 + 3 en | x+y-i | = en | x-1 | + c | y-1=-x+1

N 2.3 9(1 + 5x2gq+1) dx +2x dy = 0]=y= t114 => +114 (J+L) + x +1 =0 / 1 + 314 + (J+1)+x +1 =0 O.p.; t=-1 +0.D. (+1) = en (Jyx2+1 -1) - en (Jyx2+1+1) => 1/2,4 Drubem: y=0, en/Jy441-11-la/Jy441+11=-lah 446 + 963 = 6245 4' I y= tx => 4 t x x = 6x 5x t x-1. 2 6x = 3 => x = 1/2 4= E112 => 4 # 63+ x3 = 6x, +5/2 1 E-1/2 , = 123x3+x3 - 3x522 (2+21x)=0 25x3+x3=32128x9 13(73+1)=52186x7 \$ 1 dx = \$ \$2128 dx => Chixi+C= = | 32° 17 = | 123 = ey| 23+11 acodoc permente +=-> K. 84/8/+C 2 (4/ 40+1) , y=+0x

N2,5 Tyene vett- engescent vogker & marken времени в ош какама звинения. Тогда 14 eurs ce yenoperene. => in dy = F (Consacrio Bragaily zakony 8) To yellobuto F= kll => dv = koll = koll (ko-const) Unmerpapyale a naegolali O(H = Cekot Stead runo 6/0/-1,5 Harroque (=1,5 (=) 0(t)= 1,5 e kot Trackaleky 10(4)=186/c 2> 1=1,50 4ko alegya rue to= 0,25 en(2/3). Mosmally chapoling движений подки вызансается формули O(t) = (3) = -1 Tragemablille 0=0,01 u/c Harroque & ti= 4/1+ luo,01 250 c Trackouldky volt) - \$5(t), cgl 5(t) - negus $5(t) = \frac{4}{e^{4}(2/3)} \left(\frac{2}{5}\right)^{4/4-1} + 56$; egg. 56 = holimalityaawhere yn polaticus. Tyent 50 = 0 => $50 = -\frac{4}{e^{4}(2/3)} \left(\frac{2}{5}\right)^{4}$ 4 zanose gausecepus alagen vullen bug

5(+) = 6 (2)+14-1) Ung 19(4) - (2) +14-1 bugule, remo lim O(t)=0 => naugralu uz zanopia gbusicesma eogke 5, = lim 3(t) = 6 ~ 15 cc Oursem 1 15 M

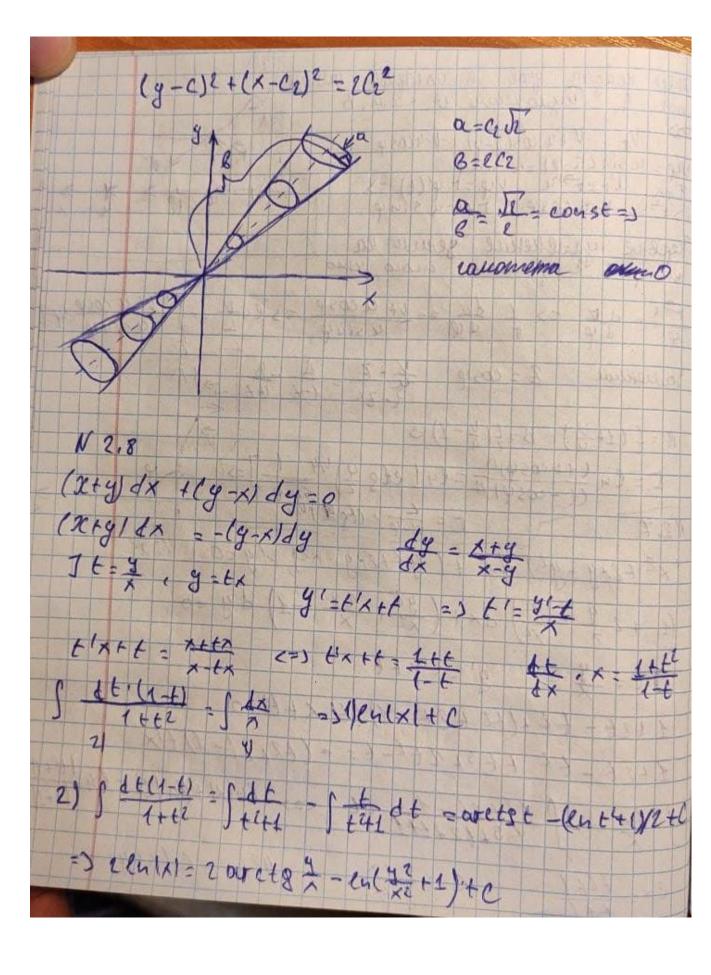
1/2,9 буден стимани вектория, Вее спорошии асторицию систему координам, выбирен mak, rimobbe cantalem 4 & seen gould as & upegener aurekomu - nobejenen elkulgoly cue, kaopo, na year ompoсаризанна на 14 amellono 1, - raguye - Beknap cana, B (gorosialia) - paguye - Bek max cavallema A Morga P' = V P2 = 4 (V - cnopperus B - Gennope) naissicence 4, und == - 1 = 7. K(t), cge K(t) - kosop (10)=4 (A-6 seage & morre nongenere, a B & Kate ul mothe ×(0)=0, 4(0)=L) KITI =0, cge t- Episse norga goronum => IR-V=K'(E) V + MAI Ускарение соманета в -всегда пупиранульние по споросни 1. 1 =0 - charap your P(2-V) = K'(A)V2 = 5 4 V - V-KA) (=> un-v2t = K(t) V2 + Cont. Kadestille galabut oxpegalition coust- - LV => WA-V26 = K(+) V2 - LV 18 montheme t=t x 201 4 KCb1 =0 =3 T = 60 Maneger Brentien

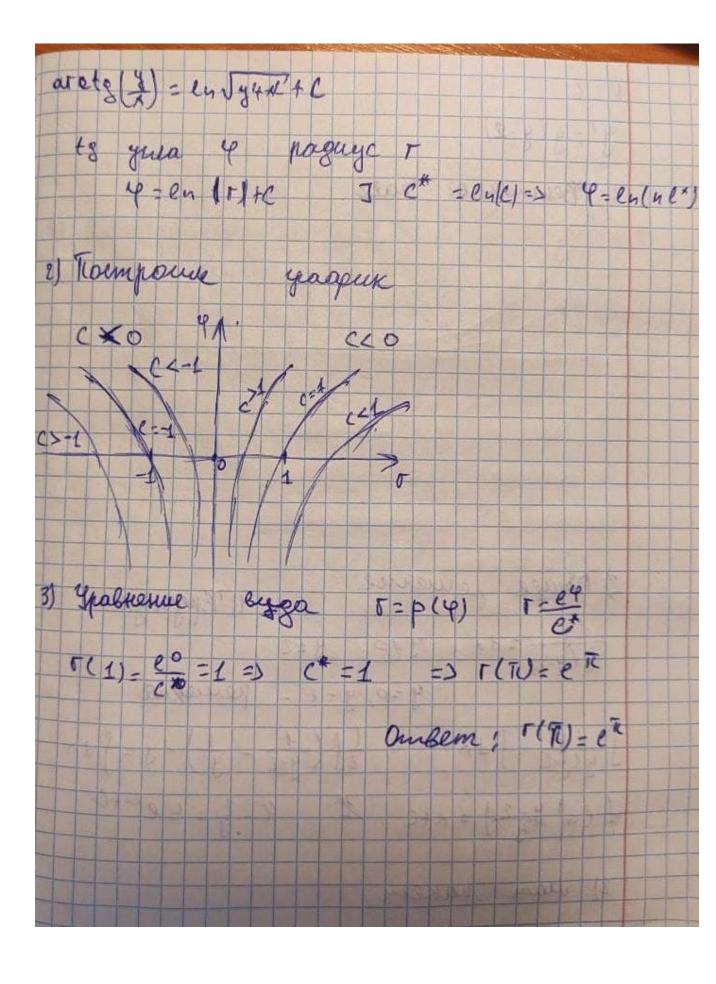
Theres ranger year & natopper winese. Vφ = usin (ti-φ) = - V-4 cos φ

Vφ = usin (ti-φ) = u sin φ

Tik Vr = = "u vφ = + φ'(t) = >

=>=== - V- u cos φ ; rφ'= u sin φ There year yearne more remo pl = dv => 1 du == V+ u cosp => ent = f4 V+ u cosp de= Salverende Z = cos q X + Z A B 3/1 12.4 1-cosq1 4 = en | cts 4 14 1]=> (x2 + exy - y2) dx + (y2 + exy - x2) dy =0 1:22 (+2 4 - 92) dx + (32 + 24 -1) dy =0]+= => g'=t'x+t 1+2t- +2+(+2+-1)(+1x++)=0 1+26-66 +63+266-6= - (68+06-4) 6'x 1 1x = - 1 + 2+ 2+ - 1 dt = 2 en | x + en | c| = (4 1+4) Cx= +41 C = 4+x 42+x2= C1(x+y)





N 2.6. 9 = 9 (4-2) 1 Beauoproe Fale 2) Obuse penience

dy = dx y 70 3+2 1) Bryingso 1 en 3-21 = x+c 1 4-2 = Lex+C 2) Man naken

