



Sim = 3/13 054590 Sin2 out corres Hom algebrar identities, 3+43 = (x+4)3 - 3xy (x+4) 18) f(x) = 2x3 => 27xy = (x+y)3 - 3xy(x+y) (SCHW) - (CX) => 26c+10 3 - 2x 2 = +3 - 4t + 4t V= 22 = 3t2-8t +4 1-2(x3+3x2++3x6++13)-2x3 At vest, V=0 => 2563+6x2h+6x6+13-223 => 3t2-8++4=0 => t = 2 or 3/3 = h C6x2+6xh+h3) -6x2+62h+h2 = 6t-8 At tz 2, 19) yz V4x3+2x 926(2)-8 = Pmls2 OR y= (4x3+2x)/2 At t= 2/3, dy = \frac{1}{2} (12x2+2) (4x3+2x) az 6(3)-8 = -4mb² 5/1/20 4x3+2xy/2 Sin/20 = Sin(280-60) = 9n60 = 43/2

2.3rad 4= 50- 326- 4+ 3/2  $y = 2x^3 - x^2 + 3x + 1$ 24 - 25c - 3 + 5c-2/x3 dy = 6x2 - 2x+3 dx = 2x-3-10/23 St x =1, 2x4-3x3-10 8/20x = 6(0) = - 2(1)+3 = 0-2+3-1 At 2 21, y = 2013-012+301+1 28) 4= Sina = 2-1+3+1=5 Odde = Cosa Egy of tangent 29/22 = - Sinx y-y= mo- 34) 134/12 = - Cosx y-5=1(x-1) 29/2/4 = Sinx = 4 y-5= x-1 ·· 2-4+4=0 27) fa) = x21 fasine-coss) 2 (sinc-coss)2 22) y = 4x+5 y = 2x2+5x-3 = Sm2-25m2 cossit cor3c-1 =(Sin2x+Gos2x)-1-25inxGos At x = 2/ = 1-1-25hazgosa Jy/1x = 4(2)+5=8+5 2-25mxcosx = -25m2x 28) fox = x2+x-6 4= 20x + p= 7 22+Kxx-3 I pot continuous a

-' m'= -1m The function f(x) 13 not continuous = 1/1 =1 when 22 7/01-3 20 y-y1=mcx-20 At 2033) y-1 21(x-1) 3° + 3 CKJ -3 =0 4-1=x-1 9+32-3=0 -- x=y 3K+620 => K=-2 -cos(90+B) z - LC0590 COSF - Sin90 SinB Z- (OXCOSB-1XSInB) = - (- SinB) = SinB 30) 7600 = V60-356x+2) Domain of fast (2-3) (x+2) >0 and x-1 \$0 and x #1 1. -2 4x < 3 => Domain Qx: -24x43, xER3/1 31) x2+xy+y=3 2) 2x+xdy+y+2ydy 50 (2x+2y) dy = - (2x+y) Let n' be the gradient of normal