でくの composite gy W= F(x,y) てかん 91 (050) 34) + 18(30) = (34) + (34) 16.6 he 16.92 aw = af · coso + af · sino 30 = 3f.35 + 3f.30 -0 Drak. Fet oursk-, Je 130 = -2 f sno + 2 f (050 (3) 300 /2+ 1 (300 /2 = 3/4 COS (0+3/4 SIME) cdo both 218 sinto tarz (030

& simple designative camposite for a Jacob op Horamato 6 deviane ((ratya dray drds + doido Defration 131 afut varietyn of two independent variables rand 4, then of U, V W. Firt 10st g/m @ [1001. come] 020) 16 = 3 01216 = 2 26 26 32 30 COSO - 21970 SMO MOSC 21(030+ nsm)0

1 2 2 2 (21/0) = 3 (21/0) 0200 1C = V y = 31510 cosculato 2= 7 36 36 30 30 nonolo 020 01 0000 10 smo

U= N2-2y 300 30 3v -3 n+2 2(N+1) U= N+9+Z UV= Y+Z UVW= Y+Z U= N+4+2 V= 4+2 V+y+2 W = Z

ひとかせます y=6V-7 (x=0-04) y= UV-UVW 30 30 30 300 35 35 35

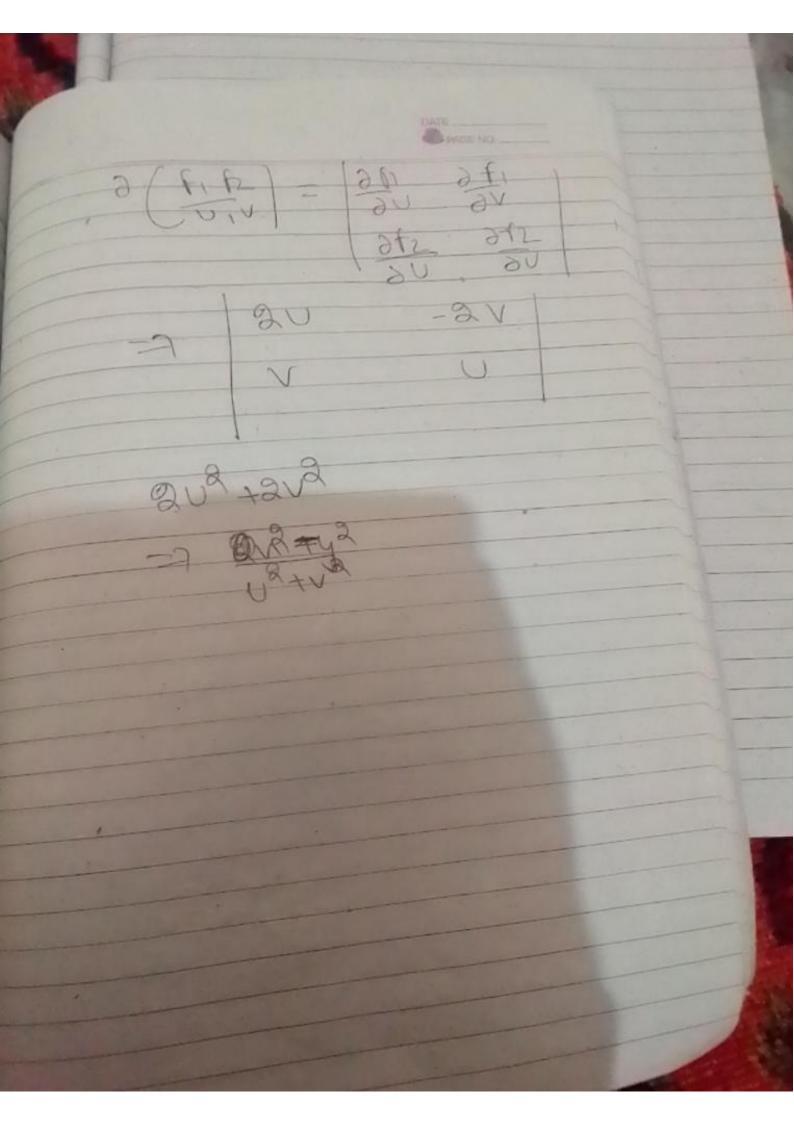
VU-W) -UV V (1-W) UV UW VW UV UW VW =7 V2V

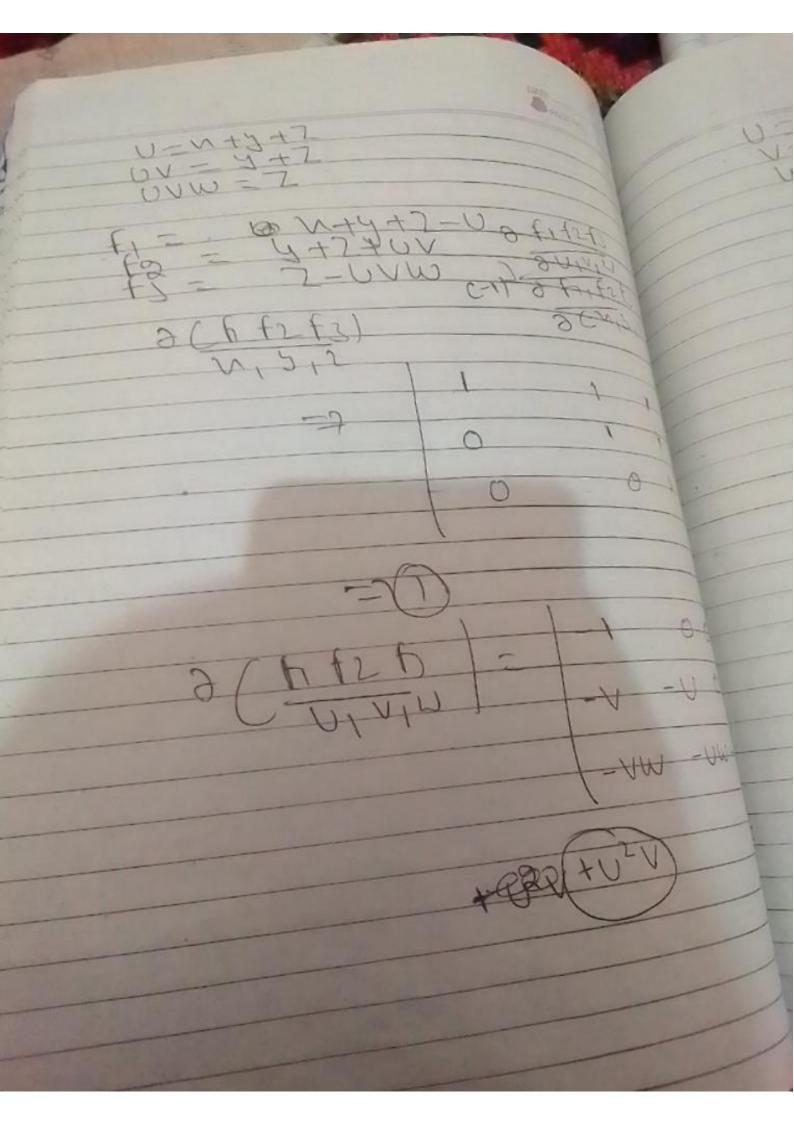
ハニルスス N=N2+25+5N W=14712 3m 3m 3m (2×13-62) 44 N Z-45 W J-WZ N-4 4-5

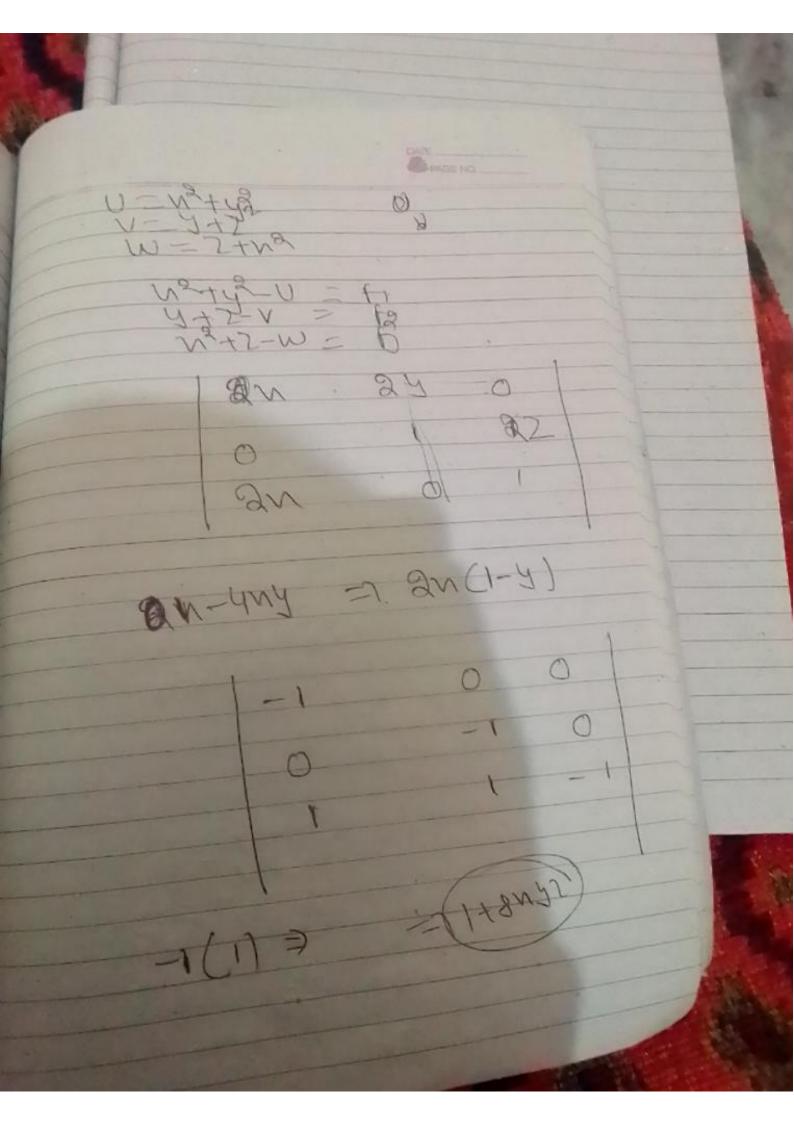
(N-Y) (Y-Z) (Z-W) タ(か)かり メタ(かな)」 2 (N'2'1) = 1 U-48/2N V=W2+y2 Endach (2) aculais) 

D F= 2012-4 M= TU-V+VW End & C Fibus (vedu) 35 95 35 90 9M 9A AC ME ME -1+W - x + xw - xvg + 20v-2)

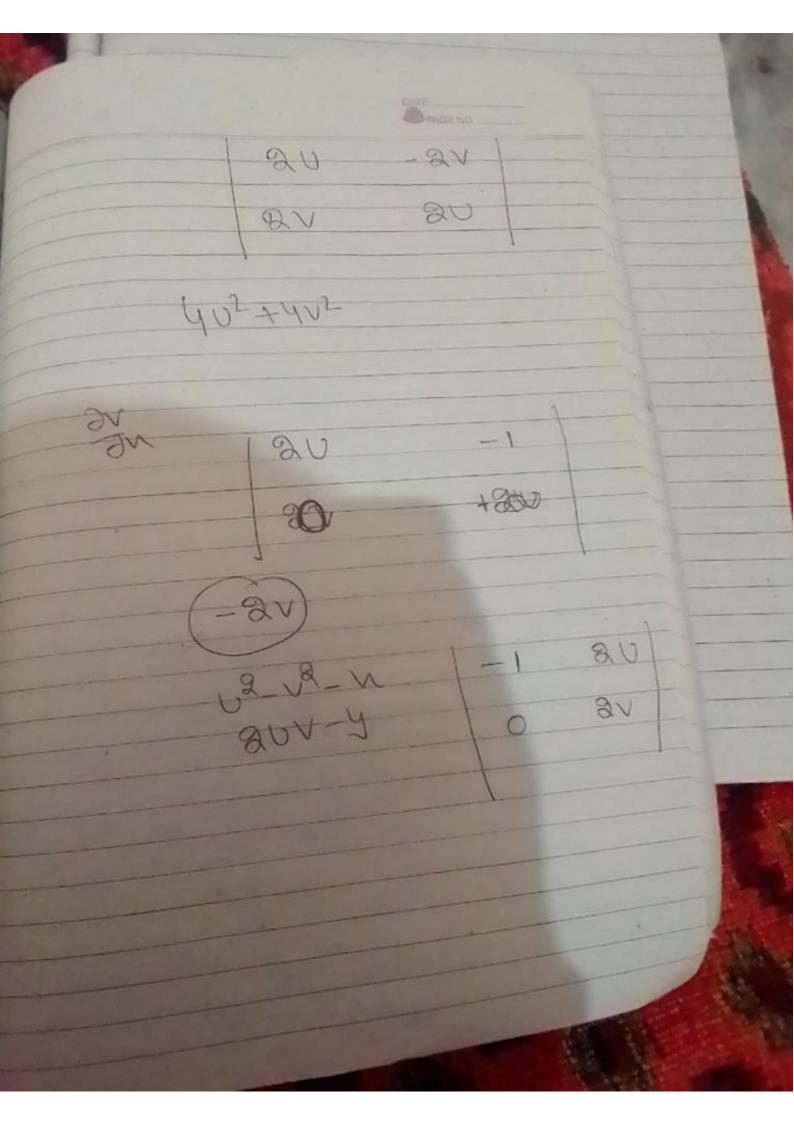
Jacobian of 9 mpuilty n F(Xy)=C of rety there cornected 3 (Ny) - (-1) -2







FI CX, Y, U, V) = 0 Facx12,0,1)=0 3 Ch, 18 ) 3 Chito (actifa) ( COIN) 2(pla) acdfid) (D3(CV/M) Y= 18-12 y= 80V



であずいろうなるこの 0 いころはなる (8) 3/2 = 3 のーナーレーナンナルターの リー・レンナレンナルタ 6/7 - 9 ( + 1 + 1 p 16 an 28 34 - 60mg+605m

CU-VICU-W) 6vw (v-w) 3 V2 3 W2 302 3(V-V) (2W-20) 302 3(V-V2) 3(W-20) 5( V-U) (W-U) (808 BCUTO) QCOTO 6(v-v) (w-v) (w+v-v-v) P(A-A) (M-A) (M-A) KUW (4-40) \$CV-01(W-01(W-4) CN-N)CO-M) Tit

amp - from med ENCINT EN C= a+0 (b-n) tucon -(0-N) (NO = 5) Hackewren's farms But a=0, b=1 In Maclaum the onem Whom [a16] Carret Q=0, b=W 9ml 00 4N8+IN +JIN Pamara CN-1) usng teletan D=4,9= DEN VQ =1

CHIZ 18-15N + N = 12 + N (13) + W. 8 + 0 EICNI = 200 + 712 + 144 + 11 + (a) = 16+28+2+6 = 24+28 = 7.52 F'(2) = 334 24+28+1 f"(a) = 38

52+50(N-8)+19(N-8))2+8(N-8) aylon's the onem for two F(x+h, y+b) = f(x,y) + [hfx+kfy] thitrx + 2hkfry+yafyy) + 1 [Kfrrz + 3hfgy + 3hk + K2fyyy] F(x,y) + (ha + hay) + + 1 ha +1 [hgn + kgg]

DATE MGE NO. (1,1) ca,b). h= n-a h= W-1 K- y-1 FC1,17+ [(x-1) fxc1,1) + (4-1) fy(4) + [CV-1)3 troc(11) +5(x-1)(V-8) + (4-112-145(1)

2-31-21 Multitle integerials Dauble Protegoral A= SCry+ & Idydr ( [rest et ] du ( [xte -e3]du =7 [ N2 + E. N - E3. N ] => 4 + Qey - Qe3 -1-e1+e (S(hyte))dray ( (Nyter) dydn

& ( KAG + 67) 4 => ( \( \ta\) - \( \ta\) = e3 3 8xx 7 N+ (c7-c2)dM [ 3. 2 + c/- N-EN] 3 => == - 7 - elu -7 728-7 + 1261-2e2-e4te3 21 te4- e3 Ans

55 dxd4 = 5 ( drdy . 1-42 I= ( JI-ya ( SIN-'N) - 5 dy 2 2

extended bounded by COIN

advato SS-ry-9 drdy 000) COJOLLOH Juy-ya dudy 2 Noy2 ya 12 109 2 (10y2-y2)312

applications of double integrals Agrea blu two whives.
We will be provided egoftwo # Doller the curves # shooted be sequired siegron # Calauate limets [ eighest byhazurental] # Asiea = ((dydn on ((dxdy

muthe anca blw panabala 3 = 4n-ng and all 7 9 = NC4-N) 9=90 N=2 1 C2+W) 5=40 S=4 1 C2+W) 5=40 N(N-3)=0 (3,4) N=O,N=3 5=0 3=3 2 4N-N2

48-16-24 - 1 48-40 - 18-46 - 14 Arg 4x9-27-9 108-24-37 15-12-12 108-81 => 176

po Askablus yas yan and No = NOW N=3/40 M= 2Jay 40 2Jay 225a 3 12 120 [3.50 (4)12 -43 Ja -9 J. 80: (20) - 610 -1 4 5 ac 4 4 4 Ja 3 64. 3 Jac (49) - 6495 4 14] a a 2 - 18/02 -9 .32 a2 -16/a2 -> 16az