Le sunt e estat e esta = 305(3x+42);fxx=-95in(3x+42) $\frac{1}{2} \frac{1}{4} \frac{1}{100} \frac{1}{100$ =(csc 2)'=-csc x cot x ;((n lm))'= " - (SECX) - Secxtanx; (a") -a" inla word - * la constant -=(x 3m); 1-12-27 (2-14)+ (5 (xx 3) 27) (2-5) ; (cotu) te the needed second-orden xla,bXx-a) +fyla,bX $\frac{\left(\frac{ax+b}{cx+d}\right)' = \frac{v^2}{cc} + \frac{b}{cc}}{\left(\frac{cx+d}{cx}\right)^2}$ Ex. f(x, y) = 2 b find | \(\tau \) following of fax 1.

P(20) in division from the (\frac{1}{2}) \) in division from the (\frac{1}{2}) \) in the division from the (\frac{1}{2}) \) In what division from the (\frac{1}{2}) \) In the (\frac{1}{2}) \(\frac{1}{2} \) In \(\frac{1}{ { } + (1/4 (1/4) (and cort at(a,b), then fis defformable 4+ 3cp(1/x)x Reuntools (dz) is definded by:

x, y) doc + fy (x, y) dy = 3z dx +

Ax = x-a; dy = 04 = 4-b 2x hat f(2,4)=x 28 15 diff at (1,0) 1.1-0.1=1. Ex Find the tangent of the 1-0.1=1. Ex Find the tangent of the 1-0.1=1 for the surface of the 1-0.1=1 for the surface of the 1-0.1=1 for the surface of the 1-0.1=1 for the 1-0.1=1 B.S fldx = x +C , 2.5%dx = 1 12 - 2x2) = 0 (1) 5x2 - 2 1 f= 250 txx = -55.93.400-48870-)mm fave to the Sunfinde z=12+4 2 on F = 2x + 4 - 2 is the fly 7 70, then the Them -1 = Flagger 15: V = 5 Source & Aurille 45=0, my=0 n S. S. = 4PR Right Signer My=Sx xf Cr, y) dA moment about y-axis Mx=SS 45 (3,4)dA Moment about x - axis Fubinis Thuonum Ef & is conton the nec ACS) = SSV Etx(x,4)] = + [tyles] +1 dt Centro Mass . Mass of a Iomina: Sudu = MU - Suday what log, nhi stery 8. Stan x dic = - In lios x d + C/S (2) whome sneed 12 Scos (ax+b)dic = 4 sim(ax+b)+C. MSsimlax +b)dx = pricondinates S(ax +b)= m ; 8 = Mx Cendor Mass of. n=b osasn cbases where 18-8'(P) Sp-assing by the stand of the s Other 2 xp dimlath)

and integral of a consorative field along any POCITION B= Ca, bJx Cc, dJx C7, SJ wantabill S.F. dr = (amost facusty (asty 6652+ + 8(1-654)astdt=0 6xint+6cost+8sin2+costdt + +4 sin (+) (2 cost), 16: Line 171040-1005 | dr. = 2+1 + 3+3 - 6. 2 + (12) dt = 2+1 + 3+3 - 6. 2 + 125 + (12) dt = (12+1) dt = (12+1) = 6 + 125 + 125 + (12) (12+1) dt = (12 Short (x+A) AA - See asxephensessesses אוווצר (שבטות) 1 us 8 , y = 8 sin & sim 8 == 8 cap b. fines B, 75mB, 2)ndzond B 4) Ciselling 42 + 32 - 34 - 64 cos2+ sint dt 1 Bsint)cost Viodt 12) J(Fed=Space + Edy+Rdz) f(x,y)= cy i + dyf) (misself f(x,y)= cy i + dyf) SFC=14) n'(4) dt= Spartners reconstructs Kried Car- State rist-in wtat-d ax = 24+ jay = 4ct S F.dn = 9 8-(66+8++64++119-11)=0-1+123+(24)& \$467# +2te+ 1662+86+642+3642-19tht = 110 counter-clockwise oriental Ady tyzdz) Cis the line sagment but we know -0 to Ci, 4, 2). Equation of line sugar Tributions, 9 -0 = 2+1 = t, Ch=2t+1, g=t, ==3t+1 Tributions. F(x, y, z) = -0 = 2-(-1) is consonative vector new the -2+d+)+(1-+)" Comment 29 19 (VY + SO) C to at the comment 1-345-24-48-48-1-48-1 & Differentiate (2+1+3+25-b)dt. respect to I 16)(2+i+325. t-increases o will 11+x3dx+ 2xyay where the concreases o will 11+x3dx+ 2xyay where the concreases of the concrease of the concreases of the concrease of the concreases of the concreases of the concrease of the concreases of the concreases of the concrease of the concreases of the concrease of the concreases of the concrease of the concrease of the concreases of the concrease of 24dt) mulione of the fricangle with vortices (0,0)(1,0)(1,3) ssx

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th 13. So, ..., & B -3. Co, ..., & B -3. Co of the condexy of St. xydu, whose E-{c) locked, ocyex, which countries on the condexy of E - x+y} of zdy dx = St. d-xy) dA. I = St. xydy dzdy dx = 81. = SS (24-0)dA. Dr. stre region inside is +3 xydy, where Cis the bounds = cosz + K. 240505 H gloss gdf, where B is region in the first quadrant that hies about the hyperbola place in the hyperbola place in the line y=2, below the line finst quadrant that lies burety-1 or old of some 351-351-4-35 xydzdydx = 4 Ather plane: = + 4+ = = 1. 12-4 2-8-24-12) 4-1. planes &x=0 (plane) C) 105x53,05451-3n,0525+3x 52 Harpfy - 8. In podan coordinate Sty y dxdy = 4 or Dis the region in where Tas the solid tetreshides DECLYS DECC 840 Coland ころりはかくこうくでは 12 Saparan He with 6,0)

