Aldh Mwona 2/2 Excellent PROF. Park 241317 Si. 1-12-62 ; Z 20 S2: x2-ty2=1 F(Y)g1Z) =(2x)2g2) SSF. J5= SSF. NJS = SS4x2 tyy2+ (1-1x2+4211188/y 505 402(412 cos 20+412 sm) + (1-(12 cos 20+12 sm20)) 1 dr do = 5205 (4r2+1-r2) 5=52075 3r3+1 dr df= 5203+1== = = (20) = 100 = 50 Surface Integral: Sox HII $\vec{F}(x_{1},x_{2}) = (\lambda x_{1}-2x_{1},z^{2})$ $S_{1}^{1} = 1$ $S_{1}^{1} = 0$ S_{2}^{1} $0 \le 2 \le 1$ $S_{1}^{1} = 1$ $S_{2}^{1} = 0$ S_{2}^{1} $0 \le 2 \le 1$ $S_{1}^{1} = 1$ $S_{2}^{1} = 1$ $S_{2}^{1} = 1$ $S_{3}^{1} = 1$ S_{3}^{1 F. Na = 27 E. 13 -0x - 42 480) 55 dxdy + 55 x2-y2 dxdy = 1 42 + 30 50 r(200320) drde= 「日本」、大学は一大学」は多り

(50 + (4,62) =3,2+32) 12/23=2 10Eyes, RZ1 F = - V + z (-64 0, -62) N= (*153,0) 2/52/ SSF. US = -655 SS US = -655 (49.05) = -482 (Meder former inside of Cymmer) an texnoresta $\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} = \frac{1$ 5500-1650 5 MM DO 201 = 50 -5in 0 0 5 m 1 20 G. 1 = 13 (EX4 - 2 Zyx2 - 253 Z)

SS (AXF) · ds = SS 6 · i ds = SS(ZX40-2 ZUXZ - 2U3Z d) = - 1 Son So (cos p cos 4 + sh4p - 2 cos d smashdcos asmb - 25 cos / sin pobl = 55000 cosp cosp sinsp - 2 cospsinasinad cos20 - 253 cospsin \$ 10 do Let v= sh 0

Let v= sh 0

Juz (05)

Cos 40 v5 - 2 sh 4 cos 20 v 3 - 2 J3 ov dv d = 3 The Sall cos 4 & u6 - 7 sin & cos 20 44 - \$ 53 10 20 = -1 50 20 4 - 51 + cos 2 + -53 = 520 cos 40 - 51 + cos 4-1= (70 55 F. 15 = SSKF). So So Fr r dodr 221 (a) F(x)4,2/= (x,4,0) n- (x, 0,4,0) Fin= x2+602 SS x2+62 JD= SOS/20 (cos20s/n) + s/n20s/n) sint JOD = 22 So 2 s/n 0 = 42 So (1-cos20) s/n 1 d1 200 30 asing cos p du= -sin 1 200 1-02 du zan(u-u3)10 = 1400 (b) F= (4, xg) = F: n = (Axx xq 5) 2x4 55 2x4 = 50 5 2x 2 cos & sin & sin 3 d d d d = D Let u = 810 cos & 25 2x5 & 0 = 40]

(CA VXF ZO For both Cait and Col, 61 Sc = . ds = South to 6)

(cos ty sht, 0) · (-sht, cos t, 0) t= (b) 5, F. JS=50 (sMt) (036,0). (-sht, cost,0) dE= DI (7,70 (11) \$ (u,v)=(vcosv) vsmv, bv), b \$ 0 To = (cos V, sm v, 6) Iv = (-usinv, ucos V, V) $T_{VV} = (-u\cos v, -u\sin v, 1)$ $K(0) = 2 n - m^{2} = 0 - b^{2} - b^{2}$ $E_{G} - F^{2} = 0 - b^{2} - b^{2}$ $E_{G} - F^{2} = 0 - b^{2} - b^{2}$ H = GQ +EA-2FM = 0 + -0 COSV -0 SANV +1 - SANV + COSV = 61 x2 + 62 + 82 = 1 I(v,v) = (a cos & son b) a son & son b son b) c cos b)

[= (-a son & son b) a son b son b)

[= (-a cos b) a son b cos b) - (-in b)

[= (-a cos b) con b) - a son b son b)

[= (-a cos b) cos b) a cos b cos b, b

[= (-a cos b) a cos b cos b, b

[= (-a cos b) a cos b cos b, b

[= (-a cos b) a cos b) a cos b cos b) 1 = 2056136 = WZ 02258AD FOR SM2d cos20 K= en-m= -(a2csfn3) 16 02=sh3b + a2cshb codd) 1 = ocsmo 12

 $T_{\theta} = (-s!n)(cos\theta) - s!n\theta s!n\theta, cos\theta)$ $T_{\theta} \times T_{\theta} = ((R+cos\theta))(cos\theta\cos\theta)(R+\cos\theta) + s!n\theta\cos\theta)$ $(R+\cos\theta) \leq s!n\theta$ $W = (R+\cos\theta)^{2} = 1|T_{\theta} \times T_{\theta}|^{2}$ $N = T_{\theta} \times T_{\theta} - C(cos\theta\cos\theta) + s!n\theta\cos\theta$ = C-(R+c050)c050, -(R+c050)sAn0,0) The cost cost of the state of S COSD R+COSD OF d 2 R HOSD 5° cos) 1 = DT - Agrees with Leoners I case beach "commented (3)

- HORAN JERRAN JAMES JULIE

6 - 12 BATTO TO STATE THE BY