1.57 U= (v(05 0) 0 - (v(0) 0 5.00) 0 + 3-4 165 = (66 0 m2 m) m5 = 16.U (i) v=1 6= 1. iii) 0:0 4= = U.dl = (vcus26) d= = = + vdv 1111) \$= \$\frac{1}{2} \rightarrow \frac{1}{2} \rightar Style 55070 40 = 2512 6 17/2 2 \(\frac{1}{2} - \frac{1}{2} = 2 DAN 3/30 3/34 = 2 +5 = 32 DAN 3/30 3/34 = 2 +5 = 22 -3 co + 6 ? - 6 6 1 (- susperine) da : - v sino dodo 6 0 = The (Oxu) - da = condo 5' coor 5' 44 = 6 - 2 7 = 37

1.57 P.V: 12 - (1, 1, 1, 10) + 1 - 20 (2, 10) + 12/20 30 (1, 1000) = \$ 423 5.00 + vs.00 4.2 (cos 0-5.26) = 4. cos 6 1 4, costo (, = 500) 3-2004 = 500 4-73- 500 600 500 600 600 = en R4 (# + 51,000) = TR4 (ETT + 3.55) i) r= R da = R2 5:~ @ dedd D D U.da = R4 5:~2 @ dedd RT S 5.12 006 S. do . 217 RT (TE - 4 5:160") = TRT (TI - 3 52) ii) 6= 2 da = vsinododo o U.da = 53 ,3 drdo 5. 5° 22. 5° 44 = 5. 4° 211: 52 TRA で(11-3年) を1本: で(211・355) 1.c2 a) da = Re simo dodo \$ S Re simo conododo & ETTRE SO SINGERSONO = TIRE & b) T:1 then PT:0 so SOTAT = STda is S g Tat = S da « S da = 0 c) a, taz § da = a, - az \$0 a= 16 + xd1 e) T= C. L DX = (C.D) + (C.D) = (C.D) = = ((x dx + cydy + (2 dz) v = (x 2 + cy 3 + cz 2 = c § Tal = S(c. Mal = -), OT x da = -), cxda

= - CXA = SKA

Sv.da = RSgindedb = 4TR SID-VIAT = S sino andode = 4TR

D×(いか)= なま(いいか): な(いい)いれり= (いい)いいー

Sucres 180 = - 8, max x & s

So DYCHAD = 0 con squere

$$\frac{1.69}{4} = \frac{1}{4\pi} + \frac{1}{4\pi} + \frac{1}{4\pi} \left(v^{2}(-\frac{1}{4}) + \frac{2v^{2}}{(v^{2} + e^{2})^{2} h} \right) = \frac{1}{4\pi} + \frac{1}{4\pi} \left(\frac{v^{2}}{(v^{2} + e^{2})^{2} h} \right)$$

$$= \frac{1}{4\pi} \int_{0}^{\pi} \int_{$$