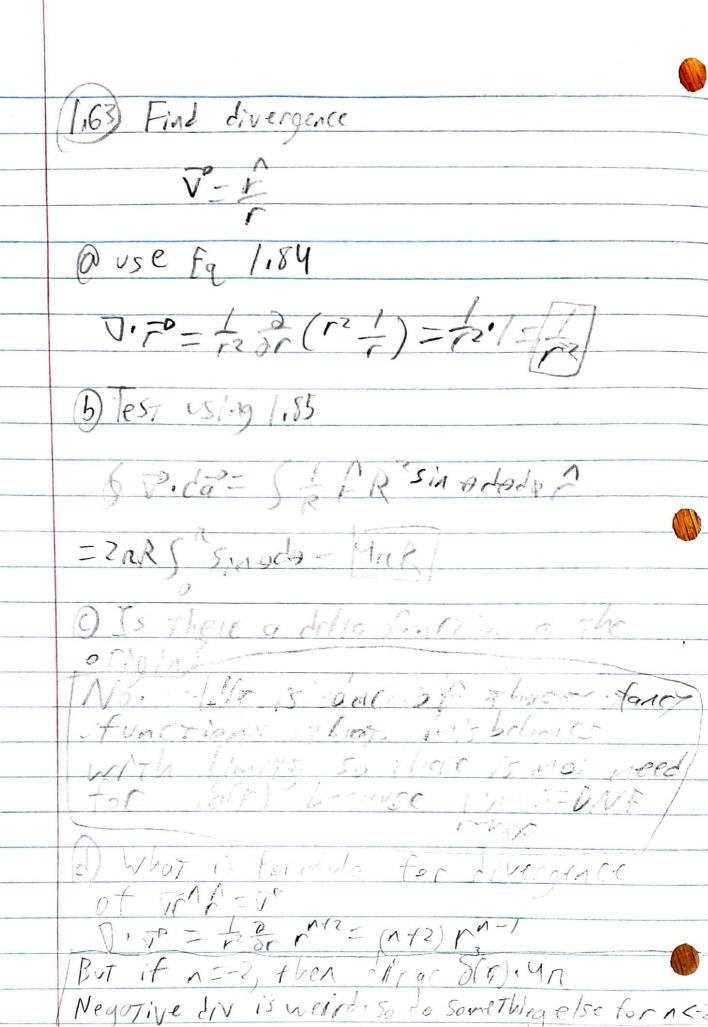
1.59) Check divergence theorem 70=125/1474412 (0500+1270100) 15(VIV) 17=16 Volat VIP = 12 D (rysinA) + 1 D (475/1900Se) + (sin) dy (P. tan+) = 1.4735/nA+ 47(2005(0)-1) = 4rsiga 4r(200590)-1) ur(20059-175/m30) = 5/10 $= Mr(c_0(\theta))$ 876212 555 4136057005/100 drd 920 560 560 = R'2/2 / Cos'e de - R'2/1 [5/10/050 + 2] 8 = Rin 写+ 制 中的(363+211)

M 23 41361dy = N3 136 12.60= B.15/100 18 Job Vides Pir SMOCOCD Cone Janes JULY. 25 1.1 SINGOLD = 201/KIL 431 TX X + Mr3 (05 ddrdn= 10/= 5 V = 62, 28 2/16 S do 50

(1.62) R= 5, das @ == \ \ \danger \danger \ \danger \ \danger \ \danger \ \danger \ = 211 = r25/nA1 rd9=21R2[-(0-1)]-[21/3] B 2-0 - Obot tatop) => 1 Rtop = SR's notode R'2n Sinodo = -2n R'gl = 270p= - 920 . . 960y 7970p = 00/D (a) Showly I of any bondong surface country is file with 1=R Standard From Production, but production of the production of the



(164)@D(r, E) = -4n V2 (1-24E2) - Virter 7- 470 83 (Trace = 410 8 (N/75))

as E-00=7-471 83 (T) D(FO= 72(+)=410 dr (22/12/62)) - - 1 - 3/2 (12/62) 3/5) = - 1 -3/263 2/5 = (3E', / MT (P3/E') 3/2) B) (beck 1) (0,€) -201 as €20 FIN 35 1 ON E grows ENDO 111 (B) fosser than Estholyks (9 (beck that Der, 6)-00 as 6-00 for 170 (1 m 3E2 1 - 03.0 1 = 0 H (#2) 5/2 = 0 1 (# (#2)

D(r) E) everywhere 15/ $\frac{3\epsilon^2}{4\pi} \left\{ \left(\frac{r^2 \sin^2 x}{r^2 \sin^2 x} \right) \right\} \left(\frac{r^2 \sin^2 x}{r^2 \sin^2 x} \right) \right\} = \frac{1}{2\pi} \left(\frac{r^2 \sin^2 x}{r^2 \sin^2 x} \right) \left($ = (4A+182 (12)502 = r(2, 3+363) 362 21, 3, 6333 21/