Evaluate (3-3×3+45) circle 12/21 Here the points one 3=3, 3=4, which his ontride the aride 18/=1 : By Canchy's therem, $\int \frac{872}{(3-3)(3+4)} ds = 0 = (1+8)(4-8)$ 2. Evaluati & Sis \$73^2 + Cos \$73^2 ds, where c is
the circle \$3 = 4 Here 3=2, 3=3 he inside the circle |3|=4 (3-2)(3-3) = 3-3 = 3-2I 2 S Sis T82+ CUS T82 ds - J Sis T32+ CUS T82 ds $= 2\pi i f(3) - 2\pi i f(2).$ 2 2 Ti {(Sin 9 T + Cus 9 T) - (Sin 4 T + Cus 4 T)} 2 271 (0+-1)-(0+1) 2 2 本 1 { - 2 } 2 -471

Evaluate of 43-1 ds, when g is the ellipse x2+442=4 2 ty2= 1 has the centre at the orgin and major omis 2 and minor anis 1 (3-4)(3+1)=0.0= No (3+8)(8-8) 32-1 his mide c and 324 hies outside c. $\int \frac{43-1}{3^2-33-4} \, dy = \int \frac{(43-1)/(3-4)}{(3+1)(3-4)} \, dy$ $\int_{c}^{c} \frac{(43-4)/3-4}{3+1} dy \qquad \int_{c}^{c} \frac{(3)^{2}}{3-4}$ 2 2 Rif(-1) (2) 2 Ti (1) _ (8) + iTS = [X + COS 9 X + COS 9 X + X + COS 4X + COS 4X + COS 4X)] (1+0)-(1-+0)(1下分)