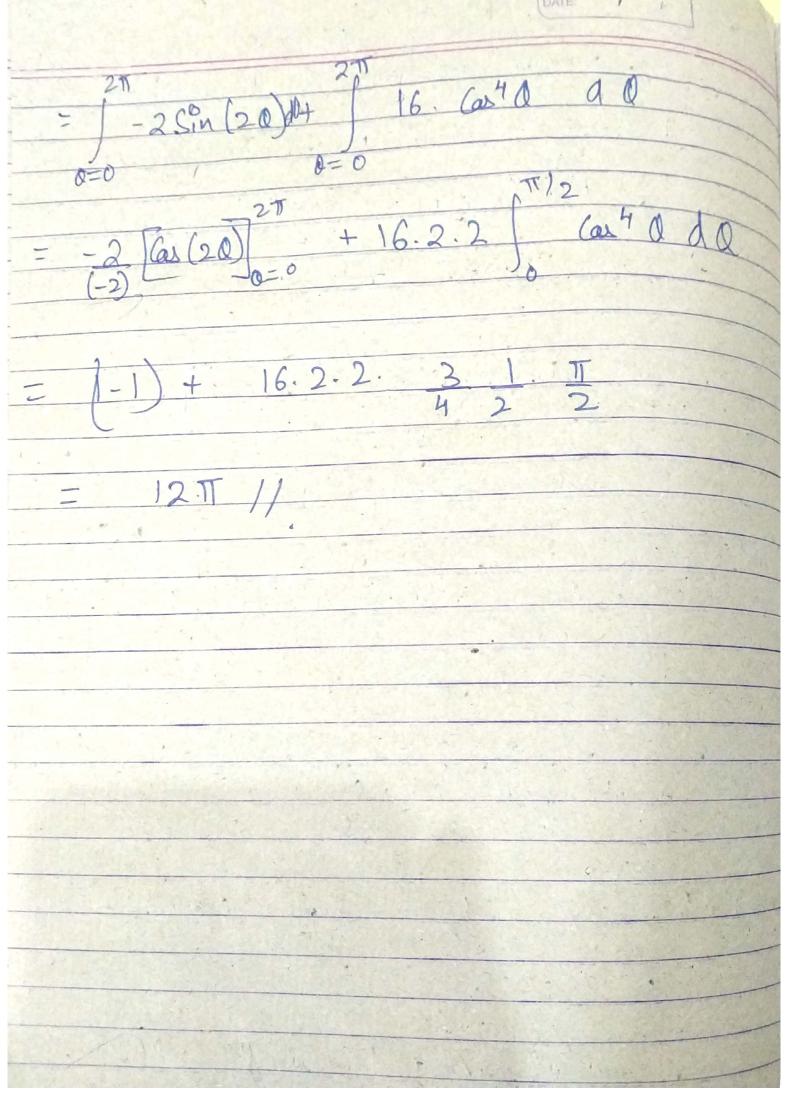


Aux We know as pen Stopes Theorem, gf.don=] (VXF) inde don= dait dyit dzb F.don = (2-2) dx + (x3+42) dy + (-3242) Cisque boundary of the sourtace == 2- 513 jg, 10-10, C: x2+y2= 4, a circle. I f. dn= [(x-2)dx+ (x3+yz)dy (-3xy2) dz On C_3 $z=0 \Rightarrow dz=0$ Taking z=2 Case y=2 Sin Q 2 (6x0) (-25°n0)+ (86x30)(26x0) = [-4 GasQ. SinQ+ 16 Gas 4 Q] dQ



Ques-Find the compative & tonsion of the archan helia have, or = a Coul i+ a Sind i+ a Cot B we know that Comatune= K= det x dot dot = -asmoit a Gaso; / do) 3. d²3i - - a 6s0i - a SinQj $\frac{d\vec{x}}{da} \times \frac{d^2\vec{x}}{da^2} = \begin{vmatrix} 9 & 1 & k \\ -a\sin\theta & +a\cos\theta & 0 \\ -a\cos\theta & -a\sin\theta & 0 \end{vmatrix}$ $=i(0)-j(0)+k(a^2)$ dr y 122 =

