Groff ths 3-30 By cymnety, Propy randh. PZ = | ZZ 6 da = | RCOSO KOSO ZR sinodo do = R3 Kros Oz sino dodo = KR32TIZ Cos2O sinodo Let  $x = \cos \theta$  -1  $d\theta = -\sin \theta \times \frac{1}{2}$   $= kR^3 2\pi \sqrt{2} \int x^2 dx$ = kR3 2172 5 x2 dx = KR3 2TI Z 3 x3 =  $\frac{4\pi k R^3}{3}$ (b) = Kop· + = Ko 4π kR3 2. - = | k 4π k (05 θ)  $\frac{1}{24\xi_0} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{5} \cos \theta = \frac{1}{3} \frac{1}{\xi_0} \frac{1}{12} \cos \theta$