

Subject: Session 78

Year. Month. Date. ()

(a) ~~Q~~ (W) $\frac{1}{4\pi a^3/3} \int_0^{2\pi} \int_0^\pi \int_0^a p \cdot p^2 \cdot \sin\theta dp d\phi d\theta = 3\alpha/4$

(b) $\frac{1}{4\pi a^3/3} \int_0^{2\pi} \int_0^\pi \int_0^a p^3 \sin^2\theta dp d\phi d\theta = 3\alpha/6$

(c) $\frac{4}{2\pi a^3/3} \int_0^{2\pi} \int_0^{\pi/2} \int_0^a p^3 \cos\theta \sin\theta dp d\phi d\theta = 3\alpha/8$