

Subject, Session 78
 Year, Month, Date, ()

(a) ~~Q1~~ $\frac{1}{4\pi a^3/3} \int_0^{2\pi} \int_0^\pi \int_0^a \rho \cdot \rho^2 \cdot \sin\theta \, d\rho \, d\theta \, d\phi = 3a/4$

(b) $\frac{1}{4\pi a^3/3} \int_0^{2\pi} \int_0^\pi \int_0^a \rho^3 \sin^2\theta \, d\rho \, d\theta \, d\phi = 3\pi a/16$

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

~~Q1~~ ~~Q2~~ ~~Q3~~ ~~Q4~~ ~~Q5~~ ~~Q6~~ ~~Q7~~ ~~Q8~~ ~~Q9~~ ~~Q10~~ ~~Q11~~ ~~Q12~~ ~~Q13~~ ~~Q14~~ ~~Q15~~ ~~Q16~~ ~~Q17~~ ~~Q18~~ ~~Q19~~ ~~Q20~~ ~~Q21~~ ~~Q22~~ ~~Q23~~ ~~Q24~~ ~~Q25~~ ~~Q26~~ ~~Q27~~ ~~Q28~~ ~~Q29~~ ~~Q30~~ ~~Q31~~ ~~Q32~~ ~~Q33~~ ~~Q34~~ ~~Q35~~ ~~Q36~~ ~~Q37~~ ~~Q38~~ ~~Q39~~ ~~Q40~~ ~~Q41~~ ~~Q42~~ ~~Q43~~ ~~Q44~~ ~~Q45~~ ~~Q46~~ ~~Q47~~ ~~Q48~~ ~~Q49~~ ~~Q50~~ ~~Q51~~ ~~Q52~~ ~~Q53~~ ~~Q54~~ ~~Q55~~ ~~Q56~~ ~~Q57~~ ~~Q58~~ ~~Q59~~ ~~Q60~~ ~~Q61~~ ~~Q62~~ ~~Q63~~ ~~Q64~~ ~~Q65~~ ~~Q66~~ ~~Q67~~ ~~Q68~~ ~~Q69~~ ~~Q70~~ ~~Q71~~ ~~Q72~~ ~~Q73~~ ~~Q74~~ ~~Q75~~ ~~Q76~~ ~~Q77~~ ~~Q78~~ ~~Q79~~ ~~Q80~~ ~~Q81~~ ~~Q82~~ ~~Q83~~ ~~Q84~~ ~~Q85~~ ~~Q86~~ ~~Q87~~ ~~Q88~~ ~~Q89~~ ~~Q90~~ ~~Q91~~ ~~Q92~~ ~~Q93~~ ~~Q94~~ ~~Q95~~ ~~Q96~~ ~~Q97~~ ~~Q98~~ ~~Q99~~ ~~Q100~~