

- A. Plot the following for rod ($R=L/2$), Gaussian coil ($R=R_g$) and sphere ($R=\text{radius}$).
1. $P(q)$ vs. $q^2 R^2$ for $0 \leq q^2 R^2 \leq 30$
 2. $q^2 R^2 \cdot P(q)$ vs. qR for $0 \leq qR \leq 10$
 3. $P(q)$ vs. $\log(qR)$ for $10^{-3} \leq qR \leq 10$
- B. Plot $[P(q) \cdot q^4 R^4]$ vs. qR for a sphere with radius R
- C. 3.5
- D. 3.6
- E. 3.7
- F. 3.8
- G. 3.9