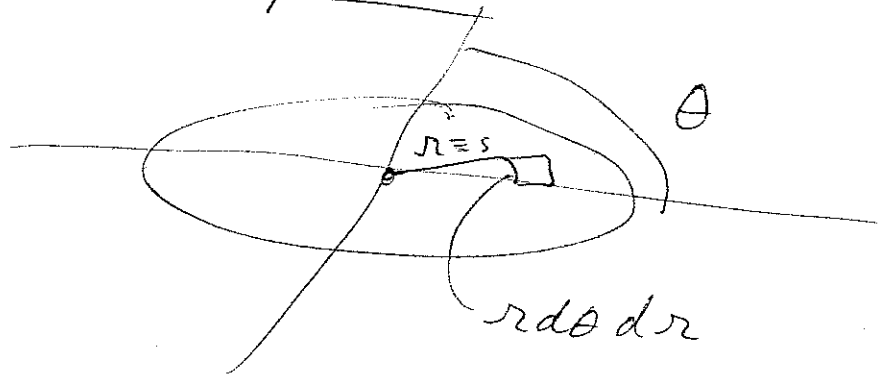


Discrete Polymers



$$R_g = \frac{\int_0^{2\pi} \int_0^R r^2 r dr d\theta}{\pi R^2}$$

$$= \frac{2\pi}{\pi R^2} \int_0^R r^3 dr$$

$$= \frac{2}{R^2} \frac{R^4}{4} = \frac{R^2}{2}$$

$$R_g = \frac{R}{\sqrt{2}} = 0.707 R$$

n :)