Parimper:

$$R$$
 $V = \int_{-R}^{R} P(x) dx$
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$$P(x) = \frac{\alpha \cdot v}{2}$$

$$V = +g\omega \cdot \alpha = +g\omega \cdot \sqrt{R^2 - x^2}$$

$$V = \int_{-R}^{R} \frac{R^2 - x^2}{2} \cdot \sqrt{R^2 - x^2} dx = \frac{1}{2} + \omega \int_{-R}^{R} (R^2 - x^2) dx = \frac{1}{2} + \omega \int_{-R$$

$$V = \int_{-R}^{R} \frac{1R^2 \times 2 \cdot 1R^2 \times 2 \cdot 17d}{2} = \frac{1}{2} t_3 dx \int_{-R}^{R} (R^2 - x^2) dx = \frac{1}{2} t_3 dx$$

$$V = + g_3 d \left(R^2 \times - \frac{x^3}{3} \right) \Big|_{0}^{R} = \frac{2}{3} R^3 t_3 dx$$
integral points life