2. 断对称性, xx是引力为0

$$d\overline{y} = G \frac{dm}{R^2} \sin \theta$$

$$= G \frac{m}{\pi R^2} d\theta \sin \theta d\theta$$

$$\int_0^{F_y} dF_y = \int_0^{\pi} \frac{Gm}{\pi R^2} \sin\theta d\theta$$

$$F_y = \frac{G_1 m}{\pi R^2} \left[-\cos b \right]_0^{71}$$

$$= \frac{G_1 m}{\pi R^2} \left(-\cos 7 + \cos 0 \right)$$

$$F_{y} = \frac{2G_{1m}}{71R^{2}}$$