

# GRAVITATION

## Gravitational force

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- Quant depend on medium.

$$\vec{F}_{12} = -\vec{F}_{21} = \frac{Gm_1m_2}{r^2}$$

## Newton's law of Gravitation

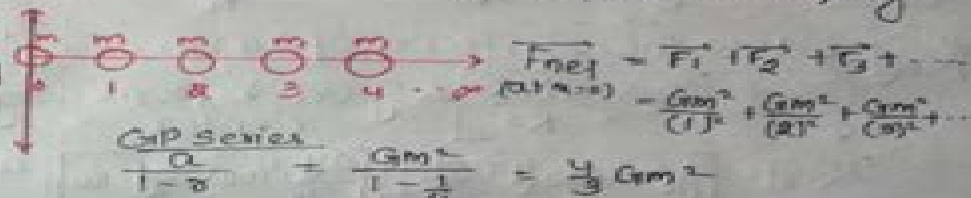
- only valid for point mass and spherical mass system.

$G$  → Gravitational constant  
 $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

## Superposition theorem

- Force bet<sup>o</sup> 2 object doesn't depend on presence of other object.

$$F_{net} = F_1 + F_2 + F_3 + \dots$$



## Hollow sphere



$F_{net \text{ inside}} = 0$

## Solid sphere



$$F = \frac{GmM'm}{r^2} = \frac{GmMm r^3}{R^2 r^2}$$

$$F_{at \ r} = \frac{GmMm r}{R^2} \quad F_{\text{surface}} = \frac{GmMm}{R^2}$$



$$\alpha = \frac{d}{R} - 1$$

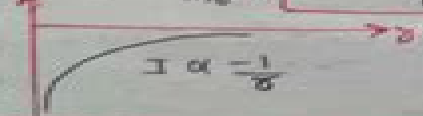


## Gravitational field intensity (Grav. force on unit mass)

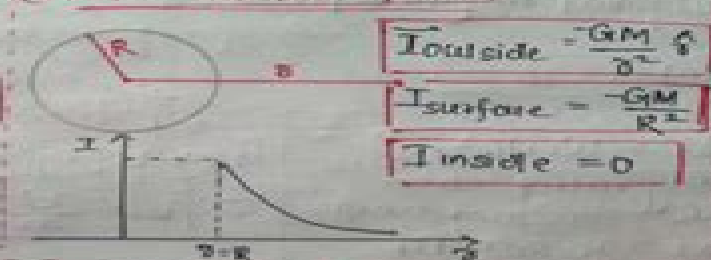
$$I = \lim_{m \rightarrow 0} \frac{F}{m_0}$$

$m_0$  → test mass

### (i) due to point mass



### (ii) due to hollow sphere



$$I_{\text{outside}} = -\frac{GM}{d^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = 0$$

### (iii) Solid sphere

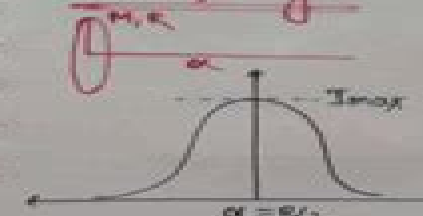


$$I_{\text{outside}} = -\frac{GM}{d^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = -\frac{GMd}{R^3}$$

### (iv) Axis of ring



$$I = \frac{GMm}{(R^2 + x^2)^{3/2}}$$

$$\alpha \ll R \quad I = \frac{GM\alpha}{R^3}$$

$$\alpha \gg R \quad I = \frac{GM}{\alpha^2}$$

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