Gravetational Force is directly propositional to The Product of two point masses and investing Proportional to the Square of distance from Their centres. [2]

(b) A satellite is in a circular orbit around a planet. The radius of the orbit is R and the period of the orbit is T. The planet is a uniform sphere.

Use Newton's law of gravitation to show that R and T are related by

$$4\pi^2R^3 = GMT^2$$

where M is the mass of the planet and G is the gravitational constant.

In orbit F = F MRWZ = GMM

$$4x^{2}R^{3}=T^{2}GM$$
 $4x^{2}R^{3}=GMT^{2}$

(c) The Earth may be considered to be a uniform sphere of mass 5.98 x 1024 kg and radius $6.37 \times 10^6 \text{ m}$.

A geostationary satellite is in orbit around the Earth.

Use the expression in (b) to determine the height of the satellite above the Earth's surface.

$$T^{2} = \frac{4x^{2}}{4m} x^{3}$$

$$(24 + 3600)^{2} = \frac{4 \times (3.14)^{2}}{6.67 \times 10^{1}} \times 5.98 \times 10^{2}$$

$$4 = 4.2 \times 10^{7} m$$

$$h = 4 - R$$

$$= 4.2 \times 1.7 - 6.37 \times 10^{6}$$

$$= 3.56 \times 10^{7}$$

height = 3.56 x 10 m [3]

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Yicheng Fang

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