

Chapter 7 Circular Motion and Gravitation

7.1 Calculate force of gravity using Newton's Law of Universal Gravitation.

5. What is the gravitational force between the Earth and the Sun? (Mass of Earth: 5.98×10^{24} kg
Mass of Sun: 1.99×10^{30} , Radius of Earth's orbit around sun: 1.50×10^{11} m)

- a. 5.29×10^{-13} N
- b. 3.53×10^{22} N
- c. 7.94×10^{24} N
- d. 5.29×10^{33} N

B

$$F_g = G \frac{m_1 m_2}{r^2} \quad m_1 = 5.98 \times 10^{24} \text{ kg} \quad m_2 = 1.99 \times 10^{30} \text{ kg} \quad r = 1.50 \times 10^{11} \text{ m}$$
$$= (6.67 \times 10^{-11} \frac{\text{N} \cdot \text{m}^2}{\text{kg}^2}) \frac{(5.98 \times 10^{24} \text{ kg})(1.99 \times 10^{30} \text{ kg})}{(1.50 \times 10^{11} \text{ m})^2} = 3.52 \times 10^{22} \text{ N}$$

7.2 Calculate force of gravity at a given distance given the force of gravity at another distance (making use of the inverse square relationship).

6. According to Newton's Universal Law of Gravitation, the gravitational force between two masses

- a. is always an attraction YES
- b. depends on how large the masses are YES
- c. depends inversely on the square of the distances between the masses YES
- d. all of the above

D

7. Two balls near each other have a certain gravitational force. What happens to the force if you triple the distance??

- a. 9x bigger
- b. 3x bigger
- c. 3x smaller
- d. 9x smaller

D

$$F_g = G \frac{m_1 m_2}{r^2}$$
$$F_g = G \frac{m_1 m_2}{(3r)^2} = G \frac{m_1 m_2}{9r^2} = \frac{1}{9} \left(G \frac{m_1 m_2}{r^2} \right)$$

8. Suppose the gravitational force between two massive spheres is 20 N. If the magnitude of each mass doubles, then what is the force between the masses?

- a. 80 N
- b. 20 N
- c. 40 N
- d. 5 N
- e. 2.5 N

A

$$F_g = G \frac{m_1 m_2}{r^2} = 20 \text{ N}$$
$$F_{g2} = G \frac{2m_1 2m_2}{r^2} = 4 \left(G \frac{m_1 m_2}{r^2} \right)$$
$$= 4(20 \text{ N}) = 80 \text{ N}$$

9. Suppose the gravitational force between two massive spheres is 40 N. If the distance between the spheres is cut in half, the force between the masses is

- a. 160 N
- b. 20 N
- c. 10 N
- d. 5 N
- e. 2.5 N

A

$$F_g = G \frac{m_1 m_2}{r^2} = 40 \text{ N}$$
$$F_{g2} = G \frac{m_1 m_2}{\left(\frac{1}{2}r\right)^2} = G \frac{m_1 m_2}{\frac{1}{4}r^2} = 4 \left(G \frac{m_1 m_2}{r^2} \right) = 4(40 \text{ N})$$
$$= 160 \text{ N}$$

Conceptual Physics Universal Gravitation Packet Answers

Arshad Iqbal



Conceptual Physics Universal Gravitation Packet Answers:

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Interdisciplinary teaching is considered as one of the main goals of education worldwide At the same time it poses an immense challenge to teachers who have been trained in only one of the combines subjects This is true even for closely related disciplines such as mathematics and physics In this volume practice oriented educational comparisons are made across various topics that are highly relevant in both subjects Furthermore practical examples are presented in the form of lesson plans in which exemplary implementation in class is presented considering both educational perspectives

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