

CONCEPTUAL PHYSICS ALIVE! VIDEO QUESTION SET

Gravity I

In this lecture, Paul Hewitt focuses on Newton's law of universal gravitation and how to interpret the corresponding equation. He illustrates the nature of the inverse square law and discusses the physics of weightlessness. Read the following questions before the presentation begins. Answer them while the presentation is in progress. [43 minutes]

1. The pattern that connects objects in the universe can be expressed as a simple mathematical relationship. Write the relationship in the space below.

2. Isaac Newton did not discover gravity, but he did discover that gravity was _____.

3. A certain gravitational force F exists between two planets having masses m_1 and m_2 and a distance d between them.

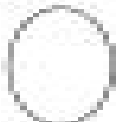
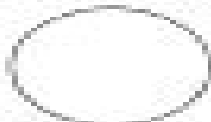
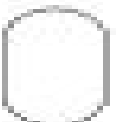
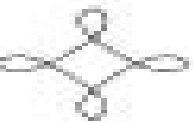


What is the force if both masses are doubled?

- A. one fourth as much
- B. half as much
- C. twice as much
- D. four times as much



4. Which shape is a typical ellipse?

- A. 
- B. 
- C. 
- D. 

5. Which of these follows an inverse square law?

- A. light intensity
- B. radioactivity
- C. magnetism
- D. electricity
- E. all of these
- F. none of these

Conceptual Physics Alive Answers

Siddappa N.Byrareddy



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