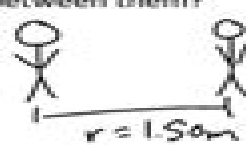


Worksheet 5.1 - Newton's Law of Universal Gravitation

1) Two students are sitting 1.50 m apart. One student has a mass of 70.0 kg and the other has a mass of 52.0 kg. What is the gravitational force between them?



$$F_g = \frac{G M m}{r^2}$$

$$= \frac{(6.67 \times 10^{-11})(70.0)(52.0)}{(1.50)^2}$$

$$= \underline{1.08 \times 10^{-7} \text{ N}}$$

2) What gravitational force does the moon produce on the Earth if their centers are 3.88×10^8 m apart and the moon has a mass of 7.34×10^{22} kg?

$$F_g = \frac{G M m}{r^2} =$$

$$\frac{(6.67 \times 10^{-11})(5.98 \times 10^{24})(7.34 \times 10^{22})}{(3.88 \times 10^8)^2}$$

$$= \underline{1.94 \times 10^{20} \text{ N}}$$

3) If the gravitational force between objects of equal mass is 2.30×10^{-8} N when the objects are 10.0 m apart, what is the mass of each object?

$$F_g = \frac{G M m}{r^2} \quad M = m$$

$$\therefore F_g = \frac{G m^2}{r^2}$$

$$m = \sqrt{\frac{F_g r^2}{G}} = \sqrt{\frac{(2.30 \times 10^{-8})(10.0)^2}{6.67 \times 10^{-11}}}$$

$$= \underline{186 \text{ kg}}$$

4) Calculate the gravitational force on a 6.50×10^4 kg that is 4.15×10^6 m above the surface of the Earth?



$$r = 1.053 \times 10^7 \text{ m}$$

$$F_g = \frac{G M m}{r^2} = \frac{(6.67 \times 10^{-11})(5.98 \times 10^{24})(6.50 \times 10^4)}{(1.053 \times 10^7)^2}$$

$$= \underline{2540 \text{ N}}$$

5) The gravitational force between two objects that are 2.1×10^{-3} m apart is 3.2×10^{-6} N. If the mass of one object is 55 kg what is the mass of the other object?

$$F_g = \frac{G M m}{r^2}$$

$$M = \frac{F_g r^2}{G m} = \frac{(3.2 \times 10^{-6})(2.1 \times 10^{-3})^2}{(6.67 \times 10^{-11})(55)}$$

$$= \underline{38 \text{ kg}}$$

6) If two objects, each with a mass of 2.0×10^3 kg, produce a gravitational force between them of 3.7×10^{-6} N. What is the distance between them?

$$F_g = \frac{G M m}{r^2}$$

$$r = \sqrt{\frac{G M m}{F_g}}$$

$$= \sqrt{\frac{(6.67 \times 10^{-11})(2.0 \times 10^3)(2.0 \times 10^3)}{3.7 \times 10^{-6}}}$$

$$= \underline{0.85 \text{ m}}$$

Universal Gravitation Problems Worksheet

RJ Alexander



Universal Gravitation Problems Worksheet:

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Table of Contents Universal Gravitation Problems Worksheet

1. Understanding the eBook Universal Gravitation Problems Worksheet
 - The Rise of Digital Reading Universal Gravitation Problems Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Universal Gravitation Problems Worksheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Universal Gravitation Problems Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Universal Gravitation Problems Worksheet
 - Personalized Recommendations
 - Universal Gravitation Problems Worksheet User Reviews and Ratings
 - Universal Gravitation Problems Worksheet and Bestseller Lists

5. Accessing Universal Gravitation Problems Worksheet Free and Paid eBooks
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 - Universal Gravitation Problems Worksheet Budget-Friendly Options
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 - Highlighting and Note-Taking Universal Gravitation Problems Worksheet
 - Interactive Elements Universal Gravitation Problems Worksheet
8. Staying Engaged with Universal Gravitation Problems Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Universal Gravitation Problems Worksheet
9. Balancing eBooks and Physical Books Universal Gravitation Problems Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Universal Gravitation Problems Worksheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Universal Gravitation Problems Worksheet
 - Setting Reading Goals Universal Gravitation Problems Worksheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Universal Gravitation Problems Worksheet
 - Fact-Checking eBook Content of Universal Gravitation Problems Worksheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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