

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Gravitational Potential Energy Practice Problems

1. A man with a mass of 80 kg is standing on the edge of a table that is 1.5 meters above the ground. What is the man's potential energy?

$$GPE = mgh = 80 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1.5 \text{ m} = \boxed{1,176 \text{ J}}$$

2. A high jumper clears a vertical distance of 2.45 m, and at the top of his trajectory his potential energy was 1590 J. What is the jumper's mass?

$$1590 \text{ J} = m \times 9.8 \text{ m/s}^2 \times 2.45 \text{ m}$$

$$\boxed{m = 66.2 \text{ kg}}$$

3. A city is situated 4080 m above sea level. If a car with a mass of 905 kg is driven from a location that is 1860 m above sea level to the city, what is the increase in potential energy?

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 4080 \text{ m} = 36,185,520 \text{ J}$$

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1860 \text{ m} = 16,496,340 \text{ J}$$

$$36,185,520 \text{ J} - 16,496,340 \text{ J} = \boxed{19,689,180 \text{ J}}$$

4. A 3.0 kg bowling ball is pushed down a 15 m high ramp. What is the potential energy of the bowling ball at the top of the ramp, in the middle of the ramp, and at the bottom of the ramp?

$$\text{Top} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 15 \text{ m} = \boxed{441 \text{ J}}$$

$$\text{Middle} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 7.5 \text{ m} = \boxed{220.5 \text{ J}}$$

$$\text{Bottom} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 0 \text{ m} = \boxed{0 \text{ J}}$$

5. What relationship exists between gravitational potential energy and the height above the ground? Why?

As height  $\uparrow$ , GPE  $\uparrow$   
As height  $\downarrow$ , GPE  $\downarrow$

#### Challenge

6. A 2.0 kg rock is nudged off the edge of a 20 m ledge. At some point during the fall, the rock has lost 250 J of potential energy. At what height does this occur?

$$GPE = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times 20 \text{ m} = 392 \text{ J}$$

$$392 \text{ J} - 250 \text{ J} = 142 \text{ J}$$

$$142 \text{ J} = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times h$$

$$\boxed{h = 7.29 \text{ m}}$$

# Energy Practice Problems With Key

**Jicheng Xie**



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### **Table of Contents Energy Practice Problems With Key**

1. Understanding the eBook Energy Practice Problems With Key
  - The Rise of Digital Reading Energy Practice Problems With Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Energy Practice Problems With Key
  - 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 Energy Practice Problems With Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Practice Problems With Key
  - Personalized Recommendations

- Energy Practice Problems With Key User Reviews and Ratings
- Energy Practice Problems With Key and Bestseller Lists
- 5. Accessing Energy Practice Problems With Key Free and Paid eBooks
  - Energy Practice Problems With Key Public Domain eBooks
  - Energy Practice Problems With Key eBook Subscription Services
  - Energy Practice Problems With Key Budget-Friendly Options
- 6. Navigating Energy Practice Problems With Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Energy Practice Problems With Key Compatibility with Devices
  - Energy Practice Problems With Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Energy Practice Problems With Key
  - Highlighting and Note-Taking Energy Practice Problems With Key
  - Interactive Elements Energy Practice Problems With Key
- 8. Staying Engaged with Energy Practice Problems With Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Energy Practice Problems With Key
- 9. Balancing eBooks and Physical Books Energy Practice Problems With Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Energy Practice Problems With Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Energy Practice Problems With Key
  - Setting Reading Goals Energy Practice Problems With Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Energy Practice Problems With Key
  - Fact-Checking eBook Content of Energy Practice Problems With Key

- 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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