

EXERCISE 2(A)

PAGE NO: 27

Question: 1

Define work. When is work said to be done by a force?

Solutions:

When the force applied on a body makes the body move, then the work is said to be done. It is a scalar quantity.

Question: 2

How is the work done by a force measured when

(i) force is in direction of displacement,

(ii) force is at an angle to the direction of displacement?

Solutions:

(i) Work done when force is in direction of displacement,

$$W = F \times S$$

(ii) Work done when force is at an angle to the direction of displacement,

$$W = F S \cos \theta$$

Question: 3

A force F acts on a body and displaces it by a distance S in a direction at an angle θ with the direction of force.

(a) Write the expression for the work done by the force.

(b) What should be the angle between force and displacement so that the work done is

(i) zero,

(ii) maximum?

Solutions:

(a) Work done when force is at an angle θ to the direction of displacement,

$$W = F S \cos \theta$$

(b) (i) The angle between force and displacement should be 90° as $\cos 90^\circ = 0$ for zero work done.

$$W = F S \cos 90^\circ$$

$$= FS \times 0$$

(ii) The angle between force and displacement should be 0° as $\cos 0^\circ = 1$ for maximum work done.

$$\text{Then, } W = FS \cos 0^\circ$$

$$= FS$$

Question: 4

A body is acted upon by a force. State two conditions when the work done is zero.

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WJ Hussar



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Table of Contents Electricity Power And Energy Answers Physics Classroom

1. Understanding the eBook Electricity Power And Energy Answers Physics Classroom
 - The Rise of Digital Reading Electricity Power And Energy Answers Physics Classroom
 - Advantages of eBooks Over Traditional Books
2. Identifying Electricity Power And Energy Answers Physics Classroom
 - 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 Electricity Power And Energy Answers Physics Classroom
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Electricity Power And Energy Answers Physics Classroom
 - Fact-Checking eBook Content of Electricity Power And Energy Answers Physics Classroom
 - 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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