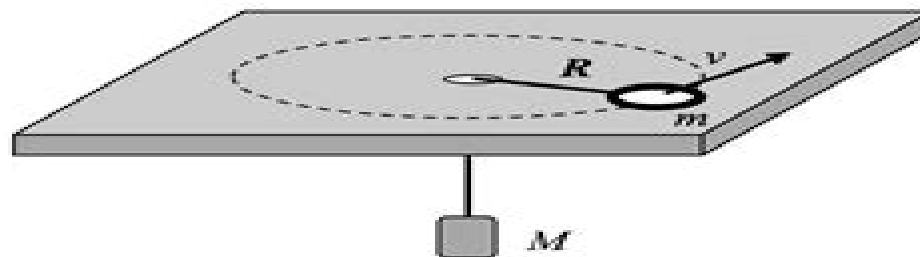


Question:

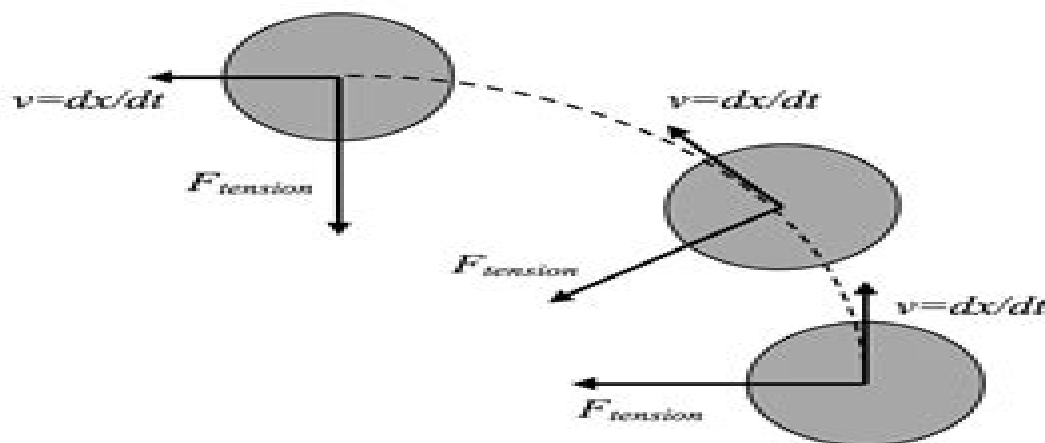
A disk of mass m is placed on a frictionless table, and attached to a vertically-hanging mass M by a string that passes through a frictionless opening in the surface. The disk has a speed v as it travels in a circle with a constant radius R . How much work is done on the disk in one half revolution?

- $Mg \cdot \pi R$
- $mg \cdot \pi R$
- $Mg \cdot \frac{1}{2} \pi R^2$
- $Mg \cdot 2R$
- none of these

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Answer:

The correct answer is *e*. $W = F \cdot x$, so $W = Fx \cos \theta$. *Zero* work is done on the disk because there are no forces acting in the direction of displacement (Δx), ie. F and Δx are perpendicular to each other for all forces. The force of gravity (weight) and the normal force act vertically while the disk is moving horizontally, so no work is done by them. The centripetal force due to the tension in the string acts perpendicular to the motion of the disk as the disk moves in a circle, so no work is done by the tension either.



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 eBook chapter wise as Chapter 1 Alternating Fields and Currents MCQ Chapter 2 Astronomical Data MCQ Chapter 3

Capacitors and Capacitance MCQ Chapter 4 Circuit Theory MCQ Chapter 5 Conservation of Energy MCQ Chapter 6 Coulomb's Law MCQ Chapter 7 Current Produced Magnetic Field MCQ Chapter 8 Electric Potential Energy MCQ Chapter 9 Equilibrium Indeterminate Structures MCQ Chapter 10 Finding Electric Field MCQ Chapter 11 First Law of Thermodynamics MCQ Chapter 12 Fluid Statics and Dynamics MCQ Chapter 13 Friction Drag and Centripetal Force MCQ Chapter 14 Fundamental Constants of Physics MCQ Chapter 15 Geometric Optics MCQ Chapter 16 Inductance MCQ Chapter 17 Kinetic Energy MCQ Chapter 18 Longitudinal Waves MCQ Chapter 19 Magnetic Force MCQ Chapter 20 Models of Magnetism MCQ Chapter 21 Newton's Law of Motion MCQ Chapter 22 Newtonian Gravitation MCQ Chapter 23 Ohm's Law MCQ Chapter 24 Optical Diffraction MCQ Chapter 25 Optical Interference MCQ Chapter 26 Physics and Measurement MCQ Chapter 27 Properties of Common Elements MCQ Chapter 28 Rotational Motion MCQ Chapter 29 Second Law of Thermodynamics MCQ Chapter 30 Simple Harmonic Motion MCQ Chapter 31 Special Relativity MCQ Chapter 32 Straight Line Motion MCQ Chapter 33 Transverse Waves MCQ Chapter 34 Two and Three Dimensional Motion MCQ Chapter 35 Vector Quantities MCQ Chapter 36 Work Kinetic Energy Theorem MCQ The Alternating Fields and Currents MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Alternating current damped oscillations in an RLS circuit electrical mechanical analog forced and free oscillations LC oscillations phase relations for alternating currents and voltages power in alternating current circuits transformers The Astronomical Data MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Aphelion distance from earth eccentricity of orbit equatorial diameter of planets escape velocity of planets gravitational acceleration of planets inclination of orbit to earth's orbit inclination of planet axis to orbit mean distance from sun to planets moons of planets orbital speed of planets perihelion period of rotation of planets planet densities planets masses sun earth and moon The Capacitors and Capacitance MCQ PDF e Book Chapter 3 practice test to solve MCQ questions on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory MCQ PDF e Book Chapter 4 practice test to solve MCQ questions on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy MCQ PDF e Book Chapter 5 practice test to solve MCQ questions on Center of mass and momentum collision and impulse collisions in one dimension conservation of linear momentum conservation of mechanical energy linear momentum and Newton's second law momentum and kinetic energy in collisions Newton's second law for a system of particles path independence of conservative forces work and potential energy The Coulomb's Law MCQ PDF e Book Chapter 6 practice test to solve MCQ questions on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field MCQ PDF e Book Chapter 7 practice test to solve MCQ questions on Ampere's law and law of Biot Savart The Electric Potential Energy MCQ PDF e Book Chapter 8 practice test to solve MCQ questions on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures MCQ PDF e Book Chapter 9 practice test to solve MCQ

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Table of Contents Rotational Motion Physics Sample Questions

1. Understanding the eBook Rotational Motion Physics Sample Questions
 - The Rise of Digital Reading Rotational Motion Physics Sample Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Rotational Motion Physics Sample Questions
 - 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 Rotational Motion Physics Sample Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rotational Motion Physics Sample Questions
 - Personalized Recommendations
 - Rotational Motion Physics Sample Questions User Reviews and Ratings
 - Rotational Motion Physics Sample Questions and Bestseller Lists

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