

Name (please print): _____ Date: _____
 Section Number (e.g. 0001): _____

Physics 311, Spring 2019 Exam 2 (90-minute version)

Directions: work on your answers after the hour begins. Most of questions are of course of your own design, but I have included some that correspond to prior assignments. The standard answer is given at least 1 significant figure and usually more. Answer with unit throughout the exam.

1. (20pts) A wheel is a freely rotating wheel (FIG. 1) with radius R and mass M . A string is attached to the rim of the wheel and passes over a pulley to a mass m . The pulley is fixed to the ceiling and the string has a length of $2R$. The mass is released with a speed of $2R\omega$ vertically downwards. Give each of the position of mass m (a) from the ground figure in meters.

- (b) Give a sketch of the structure of the wheel in FIG. 1.



- (c) Define Y points on the trajectory, in (b) and (c), where Y is the point just after the string leaves your extended hand. (d) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (e) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (f) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (g) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (h) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (i) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (j) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (k) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (l) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (m) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (n) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (o) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (p) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (q) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (r) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (s) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (t) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (u) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (v) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (w) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (x) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (y) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand. (z) Calculate the speed of the mass m at the point Y just after the string leaves your extended hand.

2. (10pts) Given the information, determine the horizontal distance between you and your destination.

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Table of Contents Physics 211 Syracuse Exam 1 Study Guide

1. Understanding the eBook Physics 211 Syracuse Exam 1 Study Guide
 - The Rise of Digital Reading Physics 211 Syracuse Exam 1 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 211 Syracuse Exam 1 Study Guide
 - 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 Physics 211 Syracuse Exam 1 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 211 Syracuse Exam 1 Study Guide
 - Personalized Recommendations
 - Physics 211 Syracuse Exam 1 Study Guide User Reviews and Ratings
 - Physics 211 Syracuse Exam 1 Study Guide and Bestseller Lists

5. Accessing Physics 211 Syracuse Exam 1 Study Guide Free and Paid eBooks
 - Physics 211 Syracuse Exam 1 Study Guide Public Domain eBooks
 - Physics 211 Syracuse Exam 1 Study Guide eBook Subscription Services
 - Physics 211 Syracuse Exam 1 Study Guide Budget-Friendly Options
6. Navigating Physics 211 Syracuse Exam 1 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics 211 Syracuse Exam 1 Study Guide Compatibility with Devices
 - Physics 211 Syracuse Exam 1 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 211 Syracuse Exam 1 Study Guide
 - Highlighting and Note-Taking Physics 211 Syracuse Exam 1 Study Guide
 - Interactive Elements Physics 211 Syracuse Exam 1 Study Guide
8. Staying Engaged with Physics 211 Syracuse Exam 1 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 211 Syracuse Exam 1 Study Guide
9. Balancing eBooks and Physical Books Physics 211 Syracuse Exam 1 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 211 Syracuse Exam 1 Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics 211 Syracuse Exam 1 Study Guide
 - Setting Reading Goals Physics 211 Syracuse Exam 1 Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics 211 Syracuse Exam 1 Study Guide
 - Fact-Checking eBook Content of Physics 211 Syracuse Exam 1 Study Guide
 - 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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