

Uniform Circular Motion: Worksheet 1

Assume that the car shown below is going at a constant speed.

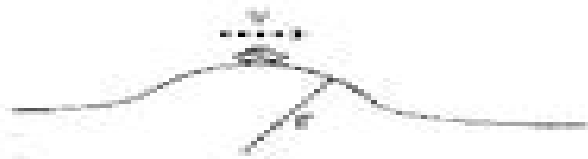


Fig. 1

1. Construct a qualitative motion map of the car in Figure 1.



2. In what direction is the car experiencing acceleration? Explain how you know.

forward the center of the circle
we know it is accelerating bc it is changing direction

3. Construct a force diagram for the car when it's at the top of the hill.



4. Suppose the speed of the car is 11.1 m/s (≈ 25 mph) and the radius of curvature (r) is 25 m, determine the magnitude of the centripetal acceleration of the car.

$$a_c = \frac{v^2}{r} = \frac{(11.1 \text{ m/s})^2}{25} = \boxed{5.23 \text{ m/s}^2}$$

5. If the mass of the car is 1200 kg, what F_{net} would be required to cause this centripetal acceleration?

$$F_{\text{net}} = ma_c = (1200 \text{ kg})(5.23 \text{ m/s}^2) = \boxed{6276 \text{ N}}$$

6. Now, determine values for the forces in your force diagram of number 3.

In car = $ma_c \Rightarrow F_g - F_N = ma_c \Rightarrow (1200)(9.8 \text{ m/s}^2) - F_N = (1200)(5.23 \text{ m/s}^2)$
 $F_g = (11760 \text{ N})$ $11760 \text{ N} - F_N = 6276 \text{ N}$ $\Rightarrow \begin{cases} F_N = 5484 \text{ N} \\ F_g = 11760 \text{ N} \end{cases}$

7. At what speed would the centripetal force equal the force of gravity?

set $F_{\text{net}} = F_g \Rightarrow \frac{mv^2}{r} = mg \Rightarrow \frac{v^2}{25} = 9.8 \Rightarrow v^2 = 245 \text{ m/s}^2 \Rightarrow \boxed{v = 15.65 \text{ m/s}}$

8. Suppose the car were going faster than the speed that you calculated for question 7, describe what would happen to the car.

it would come off the hill, bc when $mg = \frac{mv^2}{r}$ it means there is no more normal force

Modeling Workshop Project 20unit 8 Answers

RJ Alexander



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The British Library General Catalogue of Printed Books 1976 to 1982 British Library,1983 Goodheart-Willcox's Build-a-course Series: Leathercraft ,1961 **Resources in Education** ,1997-04 *Model-Driven Software Development: Integrating Quality Assurance* Rech, Jürg, Bunse, Christian,2008-08-31 Covers important concepts issues trends methodologies and technologies in quality assurance for model driven software development **Investigating Complex Phenomena: Bridging between Systems Thinking and Modeling in Science Education** Tom Bielik,Moritz Krell,Laura Zangori,Orit Ben Zvi Assaraf,2023-11-15 Understanding the complexity of the natural world and making sense of phenomena is one of the main goals of science and science education When investigating complex phenomena such as climate change or pandemic outbreaks students are expected to engage in systems thinking by considering the boundaries of the investigated system identifying the relevant components and their interactions and exploring system attributes such as hierarchical organization dynamicity feedback loops and emergence Scientific models are tools that support students reasoning and understanding of complex systems and students are expected to develop their modeling competence and to engage in the modeling process by constructing testing revising and using models to explain and predict phenomena Computational modeling tools for example provide students with the opportunity to explore big data run simulations and investigate complex systems Therefore both systems thinking and modeling approaches are important for science education when investigating complex phenomena **Research in Education** ,1973-12 EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1999-10 *Smart Spaces and Next Generation Wired/Wireless Networking* Sergey Balandin,Roman Dunaytsev,Yevgeni Koucheryavy,2010-08-26 This book constitutes the refereed proceedings of the 10th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networking NEW2AN 2010 held in conjunction with the Third Conference on Smart Spaces ruSMART 2009 in St Petersburg Russia in August 2010 The 27 revised NEW2AN full papers are organized in topical sections on performance evaluation performance modeling delay disruption tolerant networking and overlay systems integrated wireless networks resource management and multimedia communications The 14 revised ruSMART full papers are about smart spaces use cases smart M3 platform and smart spaces solutions *Bulletin of the Atomic Scientists* ,1969-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **ERDA Energy Research Abstracts** ,1983 *Energy Research Abstracts* ,1988 *Cumulated Index Medicus* ,1976 *Management* ,1978 *Popular Science* ,2003-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Management, a Continuing Literature Survey with Indexes** ,1975

Handbook of Meta-Analysis Christopher H. Schmid, Theo Stijnen, Ian White, 2020-09-07 Meta analysis is the application of statistics to combine results from multiple studies and draw appropriate inferences Its use and importance have exploded over the last 25 years as the need for a robust evidence base has become clear in many scientific areas including medicine and health social sciences education psychology ecology and economics Recent years have seen an explosion of methods for handling complexities in meta analysis including explained and unexplained heterogeneity between studies publication bias and sparse data At the same time meta analysis has been extended beyond simple two group comparisons of continuous and binary outcomes to comparing and ranking the outcomes from multiple groups to complex observational studies to assessing heterogeneity of effects and to survival and multivariate outcomes Many of these methods are statistically complex and are tailored to specific types of data Key features Rigorous coverage of the full range of current statistical methodology used in meta analysis Comprehensive coherent and unified overview of the statistical foundations behind meta analysis Detailed description of the primary methods for both univariate and multivariate data Computer code to reproduce examples in chapters Thorough review of the literature with thousands of references Applications to specific types of biomedical and social science data Supplementary website with code data sample chapters and errata This book is for a broad audience of graduate students researchers and practitioners interested in the theory and application of statistical methods for meta analysis It is written at the level of graduate courses in statistics but will be of interest to and readable for quantitative scientists from a range of disciplines The book can be used as a graduate level textbook as a general reference for methods or as an introduction to specialized topics using state of the art methods

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