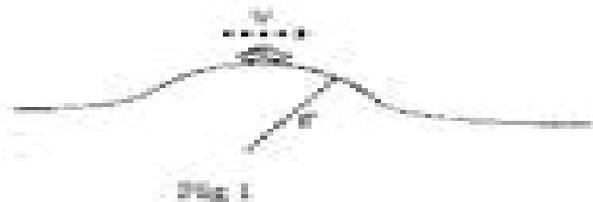


## Uniform Circular Motion: Worksheet 1

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



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 ( $\approx 25$  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  $F_{\text{net}}$  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 =  $ma_c \Rightarrow F_g - F_N = ma_c \Rightarrow (1200)(9.8 \text{ m/s}^2) - F_N = (1200)(5.23 \text{ m/s}^2)$   
 $F_g = (11760 \text{ N}) \quad 11760 \text{ N} - F_N = 6276 \text{ N}$

$F_N = 5484 \text{ N}$   
 $F_g = 11760 \text{ N}$

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

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

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 Physics Unit Viii Answers

**F Rizvi**



**Modeling Workshop Project Physics Unit Viii Answers:**

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### **Table of Contents Modeling Workshop Project Physics Unit Viii Answers**

1. Understanding the eBook Modeling Workshop Project Physics Unit Viii Answers
  - The Rise of Digital Reading Modeling Workshop Project Physics Unit Viii Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Workshop Project Physics Unit Viii Answers
  - 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 Modeling Workshop Project Physics Unit Viii Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Workshop Project Physics Unit Viii Answers
  - Personalized Recommendations

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

- 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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