

8

DYNAMICS II: MOTION IN A PLANE

Conceptual Questions

8.1. For an object in uniform circular motion the speed is constant (that's what uniform means), the angular velocity is constant, and the magnitude of the net force is constant. The velocity and centripetal acceleration are both vectors whose magnitude is constant but whose direction changes.

8.2. The free-body diagram (a) is correct. The forces acting on the car at the bottom of the hill are the downward gravitational force and an upward normal force. The car can be considered to be in circular motion about a point above the bottom center of the valley, which requires a net force toward the center of the circle. In this case, the circle center is above the car, so the normal force is greater than the gravitational force.

8.3. $T_c > T_a = T_d > T_b$. Use $T = \frac{mv^2}{r}$. For (a), $T_a = \frac{mv^2}{r}$. For (b), $T_b = \frac{mv^2}{2r} = \frac{1}{2}T_a$. For (c), $T_c = \frac{(2m)v^2}{r} = 2T_a$.

For (d), $T_d = \frac{(2m)v^2}{2r} = T_a$.

8.4. The tension in the vine at the lowest part of Tarzan's swing is greater than the gravitational force on Tarzan. If Tarzan is at rest on the vine, just hanging, the tension in the vine is equal to the gravitational force on Tarzan. But when Tarzan is swinging he is in circular motion, with the center of the circle at the top end of the vine, and the vine must provide the additional centripetal force necessary to move him in a circle.

8.5. (a) The difference in the tension between A and B is due to the centripetal force $(F_c)_{\text{net}} = \frac{mv^2}{r}$. Since the velocity v is the same for both, the greater radius for B means that the tension in case A is greater than for case B. (b) In this case, we use $(F_c)_{\text{net}} = m\omega^2 r$. The angular velocity ω is the same for both A and B, so the larger radius for B means that the tension in case A is less than the tension for case B.

8.6. Neither Sally nor Raymond is completely correct. Both have partially correct descriptions, but are missing key points. In order to speed up, there must be a nonzero acceleration parallel to the track. In order to move in a circle, there must be a nonzero centripetal acceleration. Since both of these are required, the net force points somewhere between the forward direction (parallel to the track) and the center of the circle.

8.7. (a) The plane is in dynamic equilibrium, so the net force on the plane is zero.

(b) The vertical forces cancel, and so do the horizontal forces, so the net force is zero. The plane is traveling in the positive x direction.

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Table of Contents Autocad 2013 Instructor Solution Manual

1. Understanding the eBook Autocad 2013 Instructor Solution Manual
 - The Rise of Digital Reading Autocad 2013 Instructor Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Autocad 2013 Instructor Solution Manual
 - 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 Autocad 2013 Instructor Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Autocad 2013 Instructor Solution Manual
 - Personalized Recommendations
 - Autocad 2013 Instructor Solution Manual User Reviews and Ratings
 - Autocad 2013 Instructor Solution Manual and Bestseller Lists

5. Accessing Autocad 2013 Instructor Solution Manual Free and Paid eBooks
 - Autocad 2013 Instructor Solution Manual Public Domain eBooks
 - Autocad 2013 Instructor Solution Manual eBook Subscription Services
 - Autocad 2013 Instructor Solution Manual Budget-Friendly Options
6. Navigating Autocad 2013 Instructor Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Autocad 2013 Instructor Solution Manual Compatibility with Devices
 - Autocad 2013 Instructor Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Autocad 2013 Instructor Solution Manual
 - Highlighting and Note-Taking Autocad 2013 Instructor Solution Manual
 - Interactive Elements Autocad 2013 Instructor Solution Manual
8. Staying Engaged with Autocad 2013 Instructor Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Autocad 2013 Instructor Solution Manual
9. Balancing eBooks and Physical Books Autocad 2013 Instructor Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Autocad 2013 Instructor Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Autocad 2013 Instructor Solution Manual
 - Setting Reading Goals Autocad 2013 Instructor Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Autocad 2013 Instructor Solution Manual
 - Fact-Checking eBook Content of Autocad 2013 Instructor Solution Manual
 - 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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