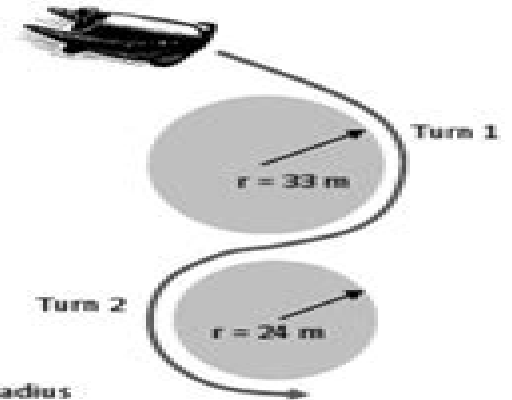


Circular Motion: Practice Problems 1

Physics

1. The bobsled track at the 1994 Olympics in Lillehammer, Norway, contained turns with radii of 33 m and 24 m.

a.) Find the centripetal acceleration at each turn for a speed of 34 m/s, a speed that was achieved in the 2-man event.



b.) What conclusion can you make about the relationship between radius and acceleration?

c.) Express the acceleration for each turn in multiples of g .

Circular Motion Practice Problems With Answers

Michael E. Browne



Circular Motion Practice Problems With Answers:

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with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

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