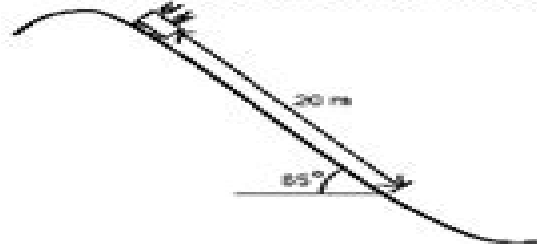


## Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

1. A rollercoaster car, 300 kg with passengers, accelerates down a  $65^\circ$  hill. We will assume that friction is small enough that it can be ignored.



- a. Draw a force diagram for the system of car and riders.



- b. Determine the value of the component of the gravitational force parallel to the hill.

$$F_{g\text{par}} = (\sin \theta) F_g = (\sin 65^\circ)(300 \text{ kg})(10 \frac{\text{m}}{\text{s}^2}) = 2720 \text{ N}$$

- c. What is the acceleration of the rollercoaster down the hill?

$$a = \frac{F_{\text{net}}}{m} = \frac{F_{g\text{par}}}{m} = \frac{2720 \text{ N}}{300 \text{ kg}} = 9.1 \frac{\text{m}}{\text{s}^2}$$

- d. If they are traveling 4 m/s at the time shown in the picture, how fast will they be traveling at the end of the straight stretch, 20 m later?

$$\begin{aligned} v_f^2 - v_i^2 &= 2a\Delta x \Rightarrow v_f^2 = 2a\Delta x + v_i^2 \\ v_f^2 &= 2(9.1 \frac{\text{m}}{\text{s}^2})(20 \text{ m}) + (4 \frac{\text{m}}{\text{s}})^2 \Rightarrow v_f^2 = 364 \frac{\text{m}^2}{\text{s}^2} + 16 \frac{\text{m}^2}{\text{s}^2} \\ v_f^2 &= 380 \frac{\text{m}^2}{\text{s}^2} \Rightarrow v = \pm \sqrt{380 \frac{\text{m}^2}{\text{s}^2}} \approx 20 \frac{\text{m}}{\text{s}} \end{aligned}$$

# Net Force Particle Model 3 Answers

**NARAYAN CHANGDER**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

### **Net Force Particle Model 3 Answers:**

Newton's Laws of Motion and Friction SANJAY KUMAR,2020-02-26 This physics book is the product of more than fifteen years of teaching and innovation experience in physics for JEE main and Advanced aspirants Our main goals in writing this book are to present the basic concepts and principles of physics that students need to know for JEE advanced and other related competitive exams to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts to develop students problem solving skills and confidence in a systematic manner to motivate students by integrating real world examples that build upon their everyday experiences What s New Lots Much is new and unseen before Here are the big four 1 Every concept is given in student friendly language with various solved problems The solution is provided 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 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 constrained relations and block over block friction problems 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 level are indicated by double dots whereas challenging problems advanced level are indicated by thee dots Answer keys with hints and solutions are provided at the end of the chapter

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These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

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