

## Unit 3

### Chapter 6 Test Answers Special relativity

#### Question 1

- a The relative speed is given by:  
 $20 + 20 = 40 \text{ m s}^{-1}$ . (1 mark)
- b The speed of light,  $c$ . (1 mark)  
Einstein's second postulate states that the speed of light will be the same no matter the motion of the light source or the observer. (1 mark)

#### Question 2

- a The idea of no absolute velocity means the value of an object's velocity will vary depending on the frame of reference from which it is observed. (1 mark)  
Example such as the following provided:  
A person standing by the side of the road measures that a car is travelling at  $50 \text{ km h}^{-1}$  but for a cyclist travelling at  $15 \text{ km h}^{-1}$  in the same direction as the car, the car will appear to be travelling at  $35 \text{ km h}^{-1}$ . (2 marks)
- b In special relativity, the speed of light is the same in all frames of reference but according to Galilean relativity its speed should vary with the frame of reference. (1 mark)

# Physics Special Relativity Test Answers

**M Mark**



## **Physics Special Relativity Test Answers:**

**Conquering the Physics GRE** Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test's actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

**NASA's Science Priorities** United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics, 2002

**Kaplan GRE Exam 2008 Comprehensive Program** Kaplan, 2007-07-03 Students who turn to Kaplan can depend on the most accurate information on the GRE test change As always Kaplans comprehensive guides combine proven score raising strategies with the latest technology to help students exceed their expectations

**Medical College Admission Test** David Reuben Turner, 1977

*Autodynamics* Ricardo L. Carezani, 1999

*Enhancing Science Education* Margaret A.L. Blackie, Hanelie Adendorff, Marnel Mouton, 2022-08-15 This book helps meet an urgent need for theorized accessible and discipline sensitive publications to assist science technology engineering and mathematics educators The book introduces Legitimation Code Theory LCT and demonstrates how it can be used to improve teaching and learning in tertiary courses across the sciences LCT provides a suite of tools which science educators can employ in order to help their students grasp difficult and dense concepts The chapters cover a broad range of subjects including biology physics chemistry and mathematics as well as different curriculum pedagogy and assessment practices This is a crucial resource for any science educator who wants to better understand and improve their teaching

**Student's Guide to Physics with Modern Applications** Leonard H. Greenberg, 1978

**X Marks the Spot** Richard Garfinkle, David Garfinkle, 2021-02-04 X Marks the Spot is written from the point of view of the users of mathematics Since the beginning mathematical concepts and techniques such as arithmetic and geometry were created as tools with a particular purpose like counting sheep and measuring land areas Understanding those purposes leads to a greater understanding of why mathematics developed as it did Later mathematical concepts came from a process of abstracting and generalizing earlier mathematics This process of abstraction is very powerful but often comes at the price of intuition and understanding This book strives to give a guided tour of the development of various branches of mathematics and what they're used for that will give the reader this intuitive understanding Features Treats mathematical techniques as tools and areas of mathematics as the result of abstracting and generalizing earlier mathematical tools Written in a relaxed conversational and occasionally

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