

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 km h^{-1} but for a cyclist travelling at 15 km h^{-1} in the same direction as the car, the car will appear to be travelling at 35 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

Minjie Lin



Physics Special Relativity Test Answers:

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