

Please indicate which of the math subjects (if any) that you are currently enrolled in.

1) 18.01

2) 18.01A/18.02A

3) 18.013A

4) 18.014

5) 18.02

6) 18.022

7) 18.023

8) 18.03

9) no math subject or higher level

We just measured the speed of light and found a value c . Since the earth is orbiting around the sun, experimental apparatus is traveling around the sun with a speed approximately equal to $10^{-4}c$. Consider an observer at rest with respect to the sun. Would that observer predict that the speed of light in the apparatus

- a) is greater than c ,
- b) the same as c ,
- c) less than c ,
- d) depends on the orientation of the apparatus with respect to the earth's motion around the sun.