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| AP Physics Chapter 26 Self-Study Guide | KEY | name | period | group |
|--|-----|---|--------|-------|
| Section 26.1 1. Physics before Einstein is known as Newtonian physics. It would be said that "modern" physics begins in the year 1905 . | c) | Is there any difference in the two results for calculating acceleration? no (another way: the law of physics is the same since neither these reference frames are accelerating (not accelerating)) | | |
| 2. An inertial frame of reference is a frame in which Newton's first law is valid. You will find such a frame of reference on Satcom you are not accelerating (starts with "a"). | 7. | Suppose an object is stationary relative to the earth, and you observe the object while you are accelerating to the right. It appears as though the object is accelerating to the left (accelerate your frame) conclude that there must be a force on the object (to the left). | | |
| 3. The relativity principle, described by Einstein and Newton says that the basic laws of physics are the same in all inertial frames of reference . | 8. | If you are riding in a merry-go-round, you will likely conclude that there is a force pushing you toward the center? yes/no . If you're on a ball as you whirl on the other end of the merry-go-round, the ball will appear to fly in a curved path, as if it were being pushed by some mysterious force! Force. These phenomena occur because you are in an accelerating frame of reference. | | |
| 4. If you are traveling through space without accelerating, and you place another non-accelerating object, is there any experiment you can do to tell whether it is you or the object that is really moving? no In other words, all motions are relative . | 9. | W hich law presented the theory of electromagnetism, the theory predicted that the speed of light in this space would be 3.00 x 10⁸ m/s , that his equations had no provision for relativity (velocity). So that means there must be some special medium (or spatial frame of reference) where light would have this speed. | | |
| 5. If you walk five and decide a bus is that's relative to the bus, as the bus is moving forward at 30 m/s relative to the ground, how fast are you moving relative to the ground? 35 m/s | 10. | Prior to Einstein, physicists thought that light and other types of electromagnetic radiation required a medium, called the ether , to travel through. This was the special frame of reference of ether in 19th century. | | |
| 6a) Suppose the same bus continues forward at 30 m/s relative to the ground. Now, you are forward, accelerating that this bus (relative to the bus) has 2 m/s. How fast are you moving relative to the ground? calculate your acceleration. | 11. | Michelson and Morley performed the most famous experiment to try to find the speed of the ether relative to Earth by using two different directions of light (two different physics formulas and/or, classical precise experiment to measure the speed of light). Were they able to find any difference in this quantity in | | |
| $a = \Delta v / \Delta t = (30 \text{ m/s} - 5 \text{ m/s}) / (2 \text{ s}) = 12.5 \text{ m/s}^2$ | | | | |
| 6b) If a jet air observer (acceleration) from the ground, he will say you accelerate from 30 - 35 = 5 m/s , and will calculate your acceleration like this: | | | | |
| $0.5 \text{ m/s}^2 = 30 \text{ m/s} / (2 \text{ s}) = 15 \text{ m/s}^2$ | | | | |

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