
**PHYSICS FOR SCIENTISTS AND ENGINEERS WITH
MODERN PHYSICS (VOLUME 3) 5TH EDITION
GLOBAL EDITION BY DOUGLAS C. GIANCOLI
CHAPTER 36_44 SOLUTIONS MANUAL**

CHAPTER 36: The Special Theory of Relativity

Responses to Questions

1. No. Since the windowless car in an exceptionally smooth train moving at a constant velocity is an inertial reference frame and the basic laws of physics are the same in all inertial reference frames, there is no way for you to tell if you are moving or not. The first postulate of the special theory of relativity can be phrased as “no experiment can tell you if an inertial reference frame is at rest or moving uniformly at constant velocity.”
2. The fact that you instinctively think you are moving is consistent with the relativity principle applied to mechanics. Even though you are at rest relative to the ground, when the car next to you creeps forward, you are moving backward relative to that car.
3. Since the railroad car is traveling with a constant velocity, the ball will land back in his hand. Both the ball and the car are already moving forward (relative to the ground), so when the ball is thrown straight up into the air with respect to the car, it will continue to move forward at the same rate as the car and fall back down to land in his hand.
4. Whether you say the Earth goes around the Sun or the Sun goes around the Earth depends on your reference frame. It is valid to say either one, depending on which frame you choose. The laws of physics, though, won't be the same in each of these reference frames, since the Earth is accelerating as it goes around the Sun. The Sun is nearly an inertial reference frame, but the Earth is not.
5. The starlight would pass at c , regardless of your spaceship's speed. This is consistent with the second postulate of relativity, which states that the speed of light through empty space is independent of the speed of the source or the observer.
6. The clocks are not at fault and they are functioning properly. Time itself is actually measured to pass more slowly in moving reference frames when compared to a rest frame. Any measurement of time (heartbeats or decay rates, for instance) would be measured as slower than normal when viewed by an observer outside the moving reference frame.
7. Time actually passes more slowly in the moving reference frame, including aging and other life processes. It is not just that it seems this way—time has actually been measured to pass more slowly in the moving reference frame, as predicted by special relativity.
8. This situation is an example of the “twin paradox” applied to parent–child instead of to twins. This situation would be possible if the woman was traveling at high enough speeds during her trip. Time would have passed more slowly for her and she would have aged less than her son, who stayed on Earth. (Note that the situations of the woman and son are not symmetric; she must undergo

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**Curriculum and Instructional Materials
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