

distance to Alpha Centauri is about 4 light-years. How far away is Alpha Centauri according to the travelers in the ship?
quite a bit less than 4 light-years

[PHY303] Which of the following statements best describes what is The theory says that everything is relative.

[PHY303] Which of the following statements best describes what is The theory says that measurements of motion make sense only when we state what they are measured relative to.

[PHY303] Which of the following statements best describes what is The theory says that everything is relative.

[PHY303] The primary difference between the special theory of relativity and the general theory of relativity is that the general theory also describes the nature of gravity.

[PHY303] The primary difference between the special theory of relativity and the general theory of relativity is that the general theory also describes length contraction.

[PHY303] If you see Ali going to your left at exactly $0.99c$ and Jide going to your right at exactly $0.99c$, Ali will say that Jide is going away from her faster than $0.99c$, but slower than c .

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[PHY303] You and Ali are both floating freely in your spaceships. Suppose Ali is moving away from you at 85 km/hr . You throw a ball in his direction at a speed of 75 km/hr . According to Ali, which of the following is going on?
He sees you moving away from him at 85 km/hr and the ball moving away from him at 10 km/hr .

[PHY303] You and Ali are both floating freely in your spaceships. Suppose Ali is moving away from you at 85 km/hr . You throw a ball in his direction at a speed of 75 km/hr . According to Ali, which of the following is going on?
He agrees that he is moving at 85 km/hr and the ball is moving at 75 km/hr while you are standing still.

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