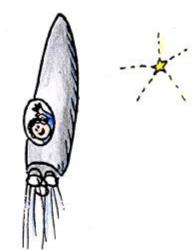
An astronaut ages 3 years when traveling at 99% the speed of light to the star procyon and back. The space officials to greet her on her return age

- a) less than 3 years.
- b) 3 years.
- c) more than 3 years.



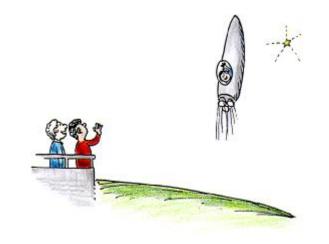


An astronaut ages 3 years when traveling at 99% the speed of light to the star procyon and back. The space officials to greet her on her return age

- a) less than 3 years.
- b) 3 years.

CONCEPTUAL Physics

c) more than 3 years.



Answer: c, more than 3 years

The 3 years experienced by the traveling astronaut is considerably less than if she had stayed at home. The stay-at-home age more than 3 years—21.2 years to be exact.

