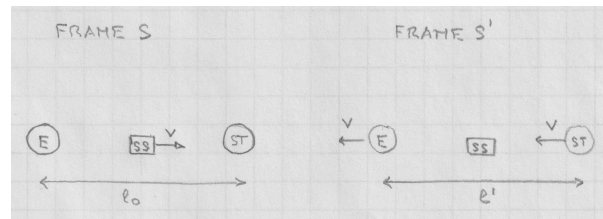


[lex160] Interstellar travel

The distance from Earth to a star is 12 light-years. Their relative velocity is negligible.

- How fast (in units of c) must a spaceship travel so that it reaches the star in 12 years according to the clocks onboard?
- How long will the trip take according to the clocks on Earth?
- How many light-years is the distance between Earth and the star from the perspective of the cruising spaceship?



Solution: