

AST 301
Quiz #4

Name: _____

1. We say that the astronauts were weightless on the way to the Moon. But the Earth's gravity was still acting on them. Why did they feel weightless?

The Earth's gravity was acting on their spacecraft causing it to accelerate the same as they were, so it didn't push on their feet when they were standing on it.

Or, they were in free-fall. You only feel the force of gravity is something is supporting you against it.

2. Which of the following are examples of electromagnetic waves?
(Circle all that are.)

- a. visible light yes
- b. sound waves no
- c. ultrasonic waves no
- d. radio waves yes
- e. x-rays yes