
Exercise C3: Direct and Retrograde Motion of the Planets

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: Why is Jupiter's direct motion slower than Mars'?

- a. Jupiter is much more massive than Mars.
- b. Jupiter is further away from the Sun than Mars.
- c. Jupiter's orbit is smaller than Mars' orbit.
- d. This is due to our terrestrial viewpoint.

Question 2: Which statement best describes the motion of Jupiter and Saturn?

- a. They move eastward then stop and then move westward.
- b. They move eastward and then westward.
- c. They move eastward, stop, move westward, stop and then move eastward again.
- d. They move in loops.

Question 3: What is the value of $F_{\text{Sun-Jupiter}} / F_{\text{Sun-Neptune}}$?

- a. 60,000 km
- b. 146,400 km
- c. 300,000 km
- d. 30,000 km