The Copernican Revolution The Beginning of Science



Nicholas Copernicus (1473-1543)

Columbus 1492



Tycho Brahe (1546–1601)



Johannes Kepler (1571–1630)

Jamestown 1607







- Earth is at the center. Earth is immobile.
- Planets move on an epicycle. Epicycle moves on a deferent.
- The deferents of Venus & Mercury are on the line between the sun and Earth.

Ptolemy's model

- 1. How did Ptolemy explain the passing of a day?
 - A. The earth spins around its axis once.
 - B. The earth moves around the sun once.
 - C. The sun spins around its axis once.
 - D. The sun moves around the earth once.
- 2. How did Ptolemy explain retrograde motion of Mars?
 - A. When Earth overtakes Mars, it appears to go backwards.
 - B. Mars move in the backwards direction when the motion on the epicycle is opposite the motion of the epicycle on the deferent.
 - C. Ptolemy could not explain retrograde motion.
- How did Ptolemy explain the fact that Venus is never seen far from the sun and never seen at midnight







