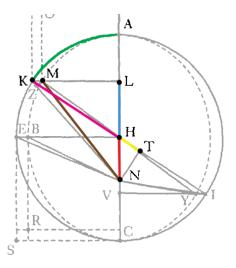
Chapter 60 Homework

Upon reaching chapter 60, you have covered all of the chapters required to re-experience with Kepler his development of an understanding of the planetary motions: an understanding that is still used today by NASA. But, do *you* understand how the planets move? Find out by putting your knowledge to practice. If you can't, then it's time to make a discovery.



It's time to make astronomical tables! For Kepler's Mars orbit, the eccentricity HN is 9265 (as discovered in Chapter 42). Can you work out the following?

- 1.) What is the mean anomaly (in degrees) corresponding to an eccentric anomaly of 40°?
- 2.) What is the equated anomaly (in degrees) corresponding to an eccentric anomaly of 36°35'16"?
- 3.) If the equated anomaly is 12°34'56", then what is the eccentric anomaly?
- 4.) An equated anomaly of 34°56'12" has a mean anomaly of ______.
- 5.) What is the eccentric anomaly for a mean anomaly of 24°?
- 6.) What is the equated anomaly for a mean anomaly of 33°?