

ASTR450 Homework # 1 – Vectors and Coordinate Systems Due Tuesday, September 17

Homeworks will be handed out each Tuesday and are due on the following Tuesday. You are welcome to work together on the problems, but try them on your own first as practice for the midterm and final. I will try to have homeworks graded and back to you within a week.

1. Danby: Problem 8, Page 19.
2. Danby: Problem 15, Page 19.
3. Danby: Problem 13, Page 21.
4. Danby: Problem 1, Page 29.
5. Danby: Problem 6, Page 29.
6. Danby: Problem 1, Page 53.
7. Danby: Problem 2, Page 53.
8. Danby: Problem 8, Page 54.
9. Danby: Problem 19, Page 55.
10. Get the computer program “xephem” running and explore its capabilities (see the class web page for instructions on getting started). If you do not want to install xephem on your computer, it is installed on Astronomy Department machines. You can get a temporary computer account by talking to John Ohlmacher (Room 0235, 301-405-1522). When in the past 3 months were Mercury and Venus at greatest eastern elongation? What elongations do these planets have now? So when and where in the sky should you look for them? Try it!