

PHYS 380

HOMEWORK #1

For in class discussion on Sept. 6; submission on Sept. 8

As with all homework assignments, all work must be clearly shown.

1. Consider a standard 12 hour clock with both an hour and a minute hand. The two hands are aligned at noon. What is the next time the two hands are aligned? How does this question relate to anything discussed in Chapter 1?
2. Text, 1.5, page 21. (Btw, the 42° parallel runs through Madonna della Strada).
3. Calculate these values for a location at the arctic circle and for a location at the tropic of Cancer.
4. Text, 1.10, page 22. You may use the celestial spheres to help you with this question
5. Text, 1.8, page 22. Remember that right ascension is given in time, and 1 hour of right ascension = 15 degrees of arc.