

Homework #2
AS101 Summer 2006
Dr. Withers

Assigned: 2006.05.19
Due: 2006.05.22, start of class

- 1) Read Chapter 2
- 2) Nights in Boston are longer (15 hours) in December than June (9 hours). If Earth's axis had no tilt, would this change? If so, how?
- 3) When it is summer in Australia, what season is it in the USA?
- 4) If a spacecraft travels at 5×10^4 metres per second for 2×10^6 seconds, how far has it travelled?
- 5) Suppose you live on the Moon near the middle of the face that looks towards Earth. What phase of Earth do you see when people on Earth see a New Moon? Draw a labelled diagram to explain your answer that shows where you are, which parts of Earth and the Moon are sunlit, and which parts are not sunlit.