

# **Introduction to Astronomy**

## **HW071024**

due in one week

1. A comet with a period of 1000 years moves in a highly eccentric orbit about the Sun. What is the comet's average distance from the Sun? What is the farthest it can get from the Sun? The closest?
2. Which planet would you expect to exhibit the greatest variation in apparent brightness as seen from Earth? Which planet would you expect to exhibit the greatest variation in angular diameter? Explain your reasoning.