

Introduction to Astronomy [普通天文學]

HW061204

due in one week

1. What evidence do we have that the surface features on Mercury were not formed during recent geologic history?
2. Why is Mars red?
3. How would one tell which craters on Mars were formed by meteoritic impacts and which by volcanic activity?
4. What geological features indicate plate tectonic activity once occurred on Mars? What features created by tectonic activity on Earth were not found on Mars?
5. What energy source powers Io's volcanoes?
6. Describe the appearance of Jupiter's atmosphere. Which features are long-lived and which are relatively fleeting?
7. Describe Titan's atmosphere. What effect has sunlight had on Titan's atmosphere?
8. Would you expect the surfaces of Pluto and Charon to be heavily cratered? Explain your reasoning.