In class worksheet (9/3/14):

1. Assuming a spacecraft with a circular orbit about the Earth, determine the altitude of geostationary orbit.

2. You observe that Mars' moon Phobos has an orbital period of ~460 minutes and an orbital radius of ~ 9.4 x 10^3 km. Use these values to determine the mass of Mars.

3. The International Space Station (ISS) resides in low Earth orbit at an altitude of ~350 km. Assuming no exospheric friction, what is its orbital period?
   How fast is it moving?