

In class worksheet (8/29/12):

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 $\sim 9.4 \times 10^3$ 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?