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Remote Sensing EET 3132

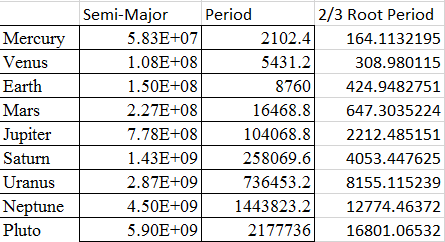
Ch.4 HW

1)

2) If , then the period of the circular orbit is:

3) Period of a Circular orbit @ Earth's surface:

Velocity:



4)

It obeys Kepler's 3rd law, which states that .

6) No, You cannot see Antarctica from a Geo orbit because the earth's gravity would pull the satellite and eventually crash to the surface.

7) Radius @ Perigee= 1.5= 9.57

Radius @ Apogee= 3= 19.14 x

Velocity @ Apogee = 3.73 km/s

Velocity @ Perigee= 7.44 km/s