Orbital Motion of Synchronous Satellite

Step 1: In the picture below give the values of all the variables for your problem including the time it took the planet to make one full revolution

Step 2: Show how you can find the radius of the orbit that will produce a synchronous satellite using Kepler's Third Law.

Step 3: Show how you can turn the orbital radius into the altitude of the satellite in km. Enter your answers into the program to make sure you did everything correctly.

Step 4 (Optional): Show the derivation of Kepler's Third Law