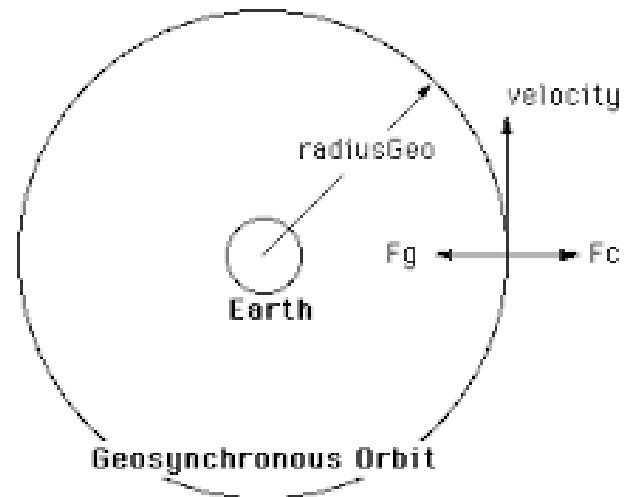


## Lab- Geosynchronous Orbit

Name : \_\_\_\_\_ Per: \_\_\_\_\_

You have been asked to put a satellite into a geosynchronous orbit around the Earth. A geosynchronous orbit (sometimes abbreviated GSO) is an orbit around the Earth with an orbital period intentionally matching the Earth's rotation period.



Using what you know, determine the radius of the orbit around the Earth, the orbital velocity of the satellite, and the period of rotation.

Period of Rotation:

Radius of orbit from center of Earth:

Orbital Velocity:

Why are geosynchronous orbits important and how might they be used?