Tutor Questions:

- Question: How can you prove that the orbit is actually circular?
- Expected Answer:

Aside from just eyeballing it, we can add in a graph of the distance from the center of Earth!

```
#MotionMap/Graph
separationGraph = PhysGraph(numPlots=1)

#Calculation Loop
separationGraph.plot(t,mag(Satellite.pos))
```



- Question: Can you simulate other trajectories with your program?
- Expected Answer: We can change the initial conditions of radius and velocity to show this.
- Question: Can you use your program to demonstrate your answer from Tuesday about the dependence on mass?
- Expected Answer: Yes, changing the mass doesn't change its motion.
- Question: What does dt stand for? What happens if you make it bigger? What is going on here? (Remember when increasing/decreasing dt you must accordingly decrease/increase the rate by the same factor.)
- Expected Answer: It is the step in time that passes every loop of the calculation loop. Increasing the time step makes for a "rougher" approximation to the real world phenomenon.