## Izaac Facundo

imf339

HW2

## 4.

a = 5.5300

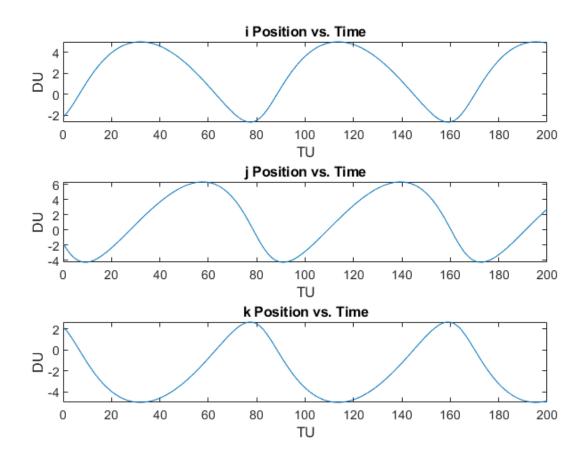
e = 0.3501

i = 0.7854

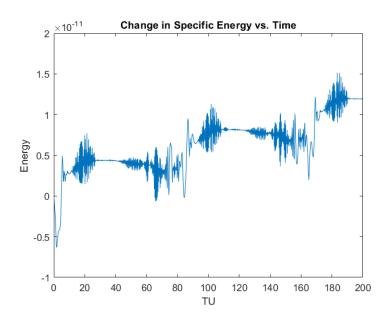
raan = 1.5708

argument or periapsis = 2.1261

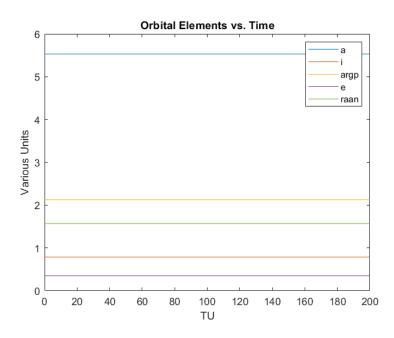
true anomaly = 0.0308



6.



7.



This graph matches my predictions because all of the orbital elements (except true anomaly) stay constant over the whole period. This is because the propagator has no perturbations (like J2) in it.