```
Line 1
        ['8840.0', '646.0', '5455.0', '-0.695', '5.25', '-1.65']
The mu Constant:
        398600.5
Radius 1 (km)
        [8840.0, 646.0, 5455.0]
Velocity 1 (km/s)
        [-0.695, 5.25, -1.65]
Semi Major Axis in Kilometers:
        8697.50274776
Eccentricity:
        0.280192105605
Eccentricity Vector:
        [-0.18750409  0.1425957  -0.15171123]
Inclination in Degrees:
        33.998739827
RAAN in Degrees:
        250.028676176
Argument of Periapsis in Degrees:
        255.537162106
True Anomaly in Degrees:
        214.854752906
Semi Latus Rectum in Kilometers:
        8014.6825415
Radius of Periapsis in Kilometers:
        6260.53113936
Radius of Apoapsis in Kilometers:
        11134.4743562
Line of Nodes Vector in Kilometers:
        [-0.19098599 -0.52554796  0.        ]
Orbit Period in Seconds:
        8072.40254637


Line 2
        ['-3084.7', '30.0', '6911.0', '5.66', '-4.07', '3.84']
The mu Constant:
        398600.5
Radius 2 (km)
        [-3084.7, 30.0, 6911.0]
Velocity 2 (km/s)
        [5.66, -4.07, 3.84]
Semi Major Axis in Kilometers:
        9492.9710195
Eccentricity:
        0.24962017705
Eccentricity Vector:
        [-0.20982221  0.09225849  0.09885972]
Inclination in Degrees:
```

```
        77.9995786434
RAAN in Degrees:
        151.004691871
Argument of Periapsis in Degrees:
        23.8841715215
True Anomaly in Degrees:
        45.1126592739
Semi Latus Rectum in Kilometers:
        8901.4617854
Radius of Periapsis in Kilometers:
        7123.33391288
Radius of Apoapsis in Kilometers:
        11862.6081261
Line of Nodes Vector in Kilometers:
        [-0.85554466  0.47414457  0.        ]
Orbit Period in Seconds:
        9204.796284
```