

Line 1
['-6032.196297', '2636.751142', '2895.576155', '-2.263977',
'-6.694681', '2.456215']
The mu Constant:
398600.5
Radius 1 (km)
[-6032.196297, 2636.751142, 2895.576155]
Velocity 1 (km/s)
[-2.263977, -6.694681, 2.456215]
Semi Major Axis in Kilometers:
7264.59984894
Eccentricity:
0.058775875057
Eccentricity Vector:
[0.00931495 0.0560127 -0.01517934]
Inclination in Degrees:
30.3571987325
RAAN in Degrees:
107.71494234
Argument of Periapsis in Degrees:
329.269012556
True Anomaly in Degrees:
83.5414037264
Semi Latus Rectum in Kilometers:
7239.50353696
Radius of Periapsis in Kilometers:
6837.61663588
Radius of Apoapsis in Kilometers:
7691.583062
Line of Nodes Vector in Kilometers:
[-0.15378061 0.48142484 0.]
Orbit Period in Seconds:
6162.09649441

Line 2
['-5586.284059', '3653.429112', '2485.754011', '-3.270184',
'-6.158976', '2.903061']
The mu Constant:
398600.5
Radius 2 (km)
[-5586.284059, 3653.429112, 2485.754011]
Velocity 2 (km/s)
[-3.270184, -6.158976, 2.903061]
Semi Major Axis in Kilometers:
7264.60034533
Eccentricity:
0.0587758567119
Eccentricity Vector:

[0.00915586 0.05611113 -0.01491017]
Inclination in Degrees:
30.3572000749
RAAN in Degrees:
107.333386361
Argument of Periapsis in Degrees:
329.871129138
True Anomaly in Degrees:
73.8014382797
Semi Latus Rectum in Kilometers:
7239.50404729
Radius of Periapsis in Kilometers:
6837.61723636
Radius of Apoapsis in Kilometers:
7691.58345429
Line of Nodes Vector in Kilometers:
[-0.15057123 0.48243826 0.]
Orbit Period in Seconds:
6162.09712599

Line 3
['-4985.172254', '4571.458066', '2012.252453', '-4.211875',
'-5.435874', '3.287959']
The mu Constant:
398600.5
Radius 3 (km)
[-4985.172254, 4571.458066, 2012.252453]
Velocity 3 (km/s)
[-4.211875, -5.435874, 3.287959]
Semi Major Axis in Kilometers:
7264.60130714
Eccentricity:
0.0587759652551
Eccentricity Vector:
[0.00899747 0.05620808 -0.01463938]
Inclination in Degrees:
30.3571989453
RAAN in Degrees:
106.951825359
Argument of Periapsis in Degrees:
330.473255306
True Anomaly in Degrees:
63.8745448457
Semi Latus Rectum in Kilometers:
7239.5049131
Radius of Periapsis in Kilometers:
6837.61735312
Radius of Apoapsis in Kilometers:

7691.58526116

Line of Nodes Vector in Kilometers:

[-0.14735511 0.48343027 0.]]

Orbit Period in Seconds:

6162.09834976