**Your Name:** Sara Liu

**Today’s Date:** 10/18/19

**Class Period:** 7

Circular orbit

Initial (x,y) and (vx,vy) are: (0.0, R + 400000.0) and (7670.1, 0.0)

|  |  |  |
| --- | --- | --- |
| Distance plot | Orbit plot | Speed plot |
|  |  |  |

Elliptical orbit

Initial (x,y) and (vx,vy) are: (0.0, R + 400000.0) and (9204.0, 0.0)

|  |  |  |
| --- | --- | --- |
| Distance plot | Orbit plot | Speed plot |
|  |  |  |

Hyperbolic orbit

Initial (x,y) and (vx,vy) are: (0.0, R + 400000.0) and (, 0.0)

|  |  |  |
| --- | --- | --- |
| Distance plot | Orbit plot | Speed plot |
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