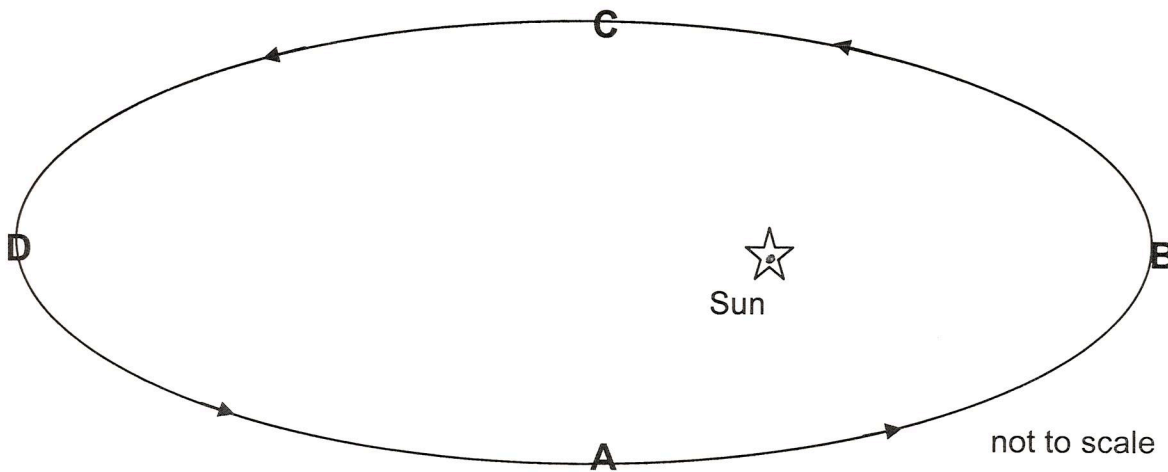


Name _____

Score _____

Free Response HW 7

Directions: base your answers to questions 1 through 5 on the diagram below. The diagram represents a planet in its orbit around the Sun.



1. Determine the eccentricity of this planet's orbit around the Sun. **Show steps**

2. As this planet moves in its orbit from location C to location A what happens to the apparent diameter of the Sun?

3. As the planet moves from location B to location D what will happen to the gravitational attraction between the Planet and the Sun? **Solve mathematically**

4. Compare the eccentricity and shape of this planet's orbit compared to the eccentricity and shape of Earth's orbit.

5. Complete the graph to show the planet's orbital velocity as it orbits the Sun

