

**THE MECHANICAL UNIVERSE**

**Video 23 - Energy and Eccentricity**

**Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_

1. What three mathematical curves (or conic sections) do all heavenly bodies follow?
2. The rewards of science pay off in what currency?
3. A planet's potential energy is lowest at what point around the sun?
4. How is the energy of a planet similar to that of a swinging pendulum?
5. How was Pluto discovered?
6. For how many stars had Tycho Brahe made observations?
7. On what does the shape of a planet's orbit depends on?
8. A hyperbolic orbit has what eccentricity?
9. Who was the first person to know what Newton had done?