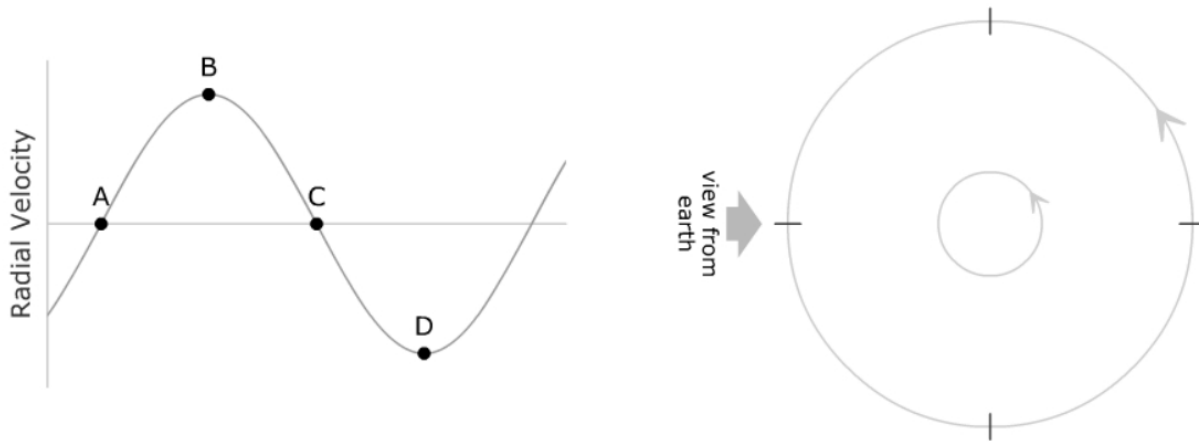


Name: \_\_\_\_\_

**PRE-LAB QUIZ #5 (10pts)**

- In the picture on the right hand side below, the orbital paths of a simple Star-Planet system are shown. The Star orbits on the inner circle, the planet the outer circle. On the left side, the graph shows the measured radial velocity of the Star as viewed from earth. Remember, the measured radial velocity is positive when the star is moving away from the earth and negative when the star is moving towards the earth.

Your job is to label the positions on the **star's orbit** with the letters (A, B, C, D) corresponding to the labeled positions of the radial velocity curve. Next label the corresponding positions on the **planet's orbit** on the **outer circle** also.



- Describe in words and figures what the *Transit Method* is for detecting exo-planets. For most exo-planets, it isn't possible to use the transit method, why is that?