

Name \_\_\_\_\_

**PHYS319 Optics**  
**Pre-lab Diffraction 2**

1. What are the primary differences between the intensity relationship used in single slit from last week and the intensity relationship in this week's double slit experiment?
2. How is Poisson pronounced? Include some type of pronunciation guide (i.e., phonetic spelling(s)).
3. Qualitatively describe the difference(s) between the a single slit and double slit diffraction pattern
4. What is the focal length of the Fresnel zone plate used in this experiment. Give answer in cm and inches. Show conversion.
5. Why is the Poisson spot "ironically named." See theory section of write-up.