

NAME: _____

1. State the Huygens-Fresnel principle

2. Light with wavelength λ is incident on a single slit whose width is adjustable. The slit initially has a width λ and increases to 1000λ . Describe qualitatively the change in the diffraction pattern.

3. What is Young's interference?

4. If the ratio d/a is 5, how many complete interference fringes within the central diffraction peak do you expect to observe?