

### **Ch 27 HW Quiz #1B**

Light of wavelength 656 nm is incident on two slits separated by 0.250 mm. The interference pattern is projected on a wall 7.50 meters away from the slits.

- a) At a distance of 6.88 cm away from the center of the pattern, is there a bright fringe or a dark fringe? Justify your answer.
- b) If we reduce the separation between the slits, will that same fringe referred to in (a) be found further away than 6.88 cm from the center or closer than 6.88 cm from the center? Justify your answer.