

OPTI380A

Prelab Questions – Lab 8 2009

All pre lab questions must be submitted at the beginning of each laboratory session. They are designed to prepare you for the lab so that you can finish the lab on-time. You will receive zero credit for the pre lab questions, if you come to the lab without answering the pre lab questions.

Prelab questions:

- (1) What are the differences between interference by division of wavefront and interference by division of amplitude?
- (2) In Young's double slit experiment, how does the fringe spacing change with the separation of the two slits for a fixed wavelength of light?
- (3) What are the conditions for constructive and destructive interference for a monochromatic coherent light wave?