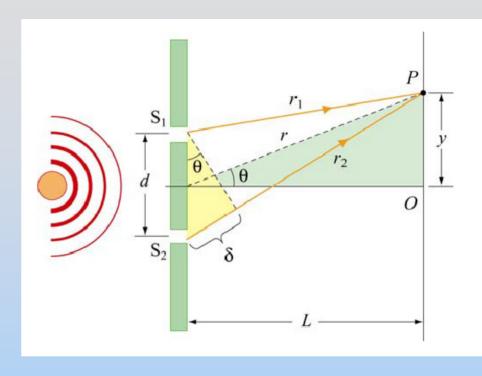
## **Concept Question: Double Slit**

Coherent monochromatic plane waves impinge on two apertures separated by a distance d. An approximate formula for the path length difference between the two rays shown is



- 1. d sin  $\theta$
- 2. L sin  $\theta$
- 3. d cos  $\theta$
- 4. L cos  $\theta$
- 5. Don't have a clue.

MIT OpenCourseWare http://ocw.mit.edu

8.02SC Physics II: Electricity and Magnetism

Fall 2010

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.