

Chapter 29 Light Waves
Diffraction and Interference—continued

2. Look at the construction of overlapping circles on your classmates' papers. Some will have more nodal lines than others, due to different starting points. How does the number of nodal lines in a pattern relate to the distance between centers of circles (or sources of waves)?

3. Figure 29.18 from your textbook is repeated below. Carefully count the number of wavelengths (same as the number of wave crests) along the following paths between the slits and the screen.



- Number of wavelengths between slit A and point a is _____
- Number of wavelengths between slit B and point a is _____
- Number of wavelengths between slit A and point b is _____
- Number of wavelengths between slit B and point b is _____
- Number of wavelengths between slit A and point c is _____
- Number of wave crests between slit B and point c is _____

4. When the number of wavelengths along each path is the same or differs by one or more whole wavelengths, interference is _____

[constructive] [destructive]

and when the number of wavelengths differ by a half wavelength (or odd multiples of a half wavelength), interference is _____

[constructive] [destructive].

It's nice how knowing some physics really changes the way we see things!



Conceptual Physics Waves Test Answer Keys

Cathy Duffy



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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax