



DDS ACADEMY

Wave Optics H.W.

1. Distance of a point on the screen from the two sources differ by 93λ . Is the point bright or dark ? If the path difference is 0.0465 mm, Calculate wavelength.
(Ans: $\lambda = 5000\text{\AA}$)
2. Optical path difference between two waves starting from sources arriving at a point on the screen is 85.5λ . Is the point dark or bright ?. If the path difference is 42.5 micrometer, calculate wavelength. (Ans: $\lambda = 4971\text{\AA}$)

