Question:

In Young's double slit experiment the slits are apart and the interference is observed on a screen at a distance of from the slit. It is found that the bright fringe is at a distance of from the second dark fringe from the centre of the fringe pattern on same side. Find the wavelength of the light used.

Solution:

; position of IInd dark is at fringe widthposition 9th bright fringe is separation given that so so