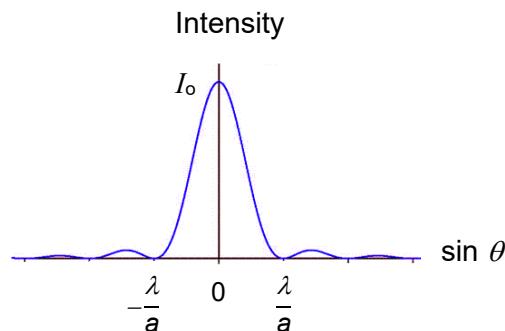
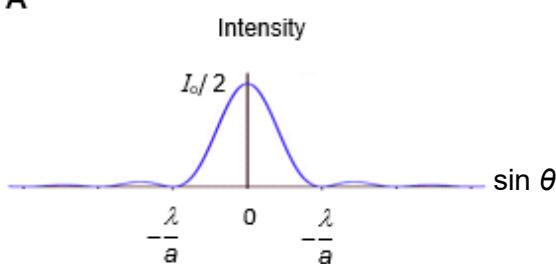


- 18 Light of wavelength  $\lambda$  incident on an adjustable single slit produces on a screen the diffraction pattern as shown when the slit width is  $a$ .

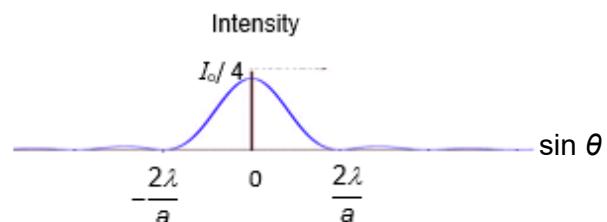


Which of the following diagrams best represents the diffraction pattern when the width of the slit is reduced to  $\frac{a}{2}$ ?

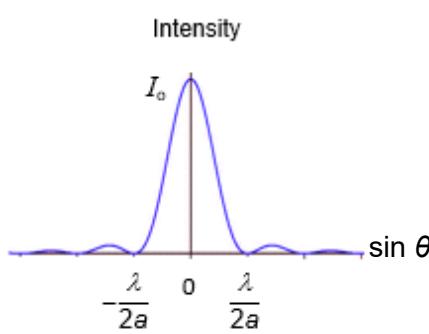
A



B



C



D

