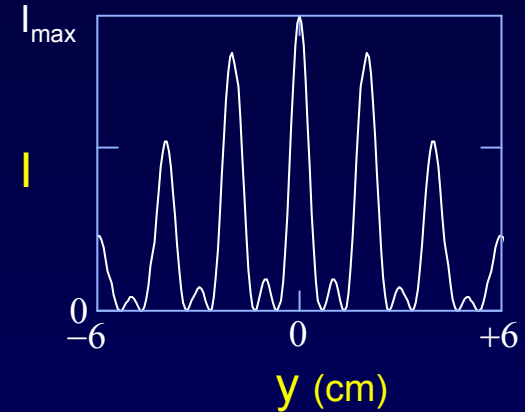


Interference & Diffraction Exercise

Light of wavelength λ is incident on an N -slit system with slit width a and slit spacing d .

1. The intensity I as a function of y at a viewing screen located a distance L from the slits is shown to the right. $L \gg d, y, a$. What is N ?



- a) $N = 2$ b) $N = 3$ c) $N = 4$

2. Now the slit spacing d is halved, but the slit width a is kept constant. Which of the graphs best represents the new intensity distribution?

