

Act 1

Light interfering from 10 equally spaced slits initially illuminates a screen. Now we double the number of slits, keeping the spacing constant.

1. What happens to the intensity I at the principal maxima?

- a. stays same (I) b. doubles ($2I$) c. quadruples ($4I$)

2. What happens to the net power on the screen?

- a. stays same b. doubles c. quadruples