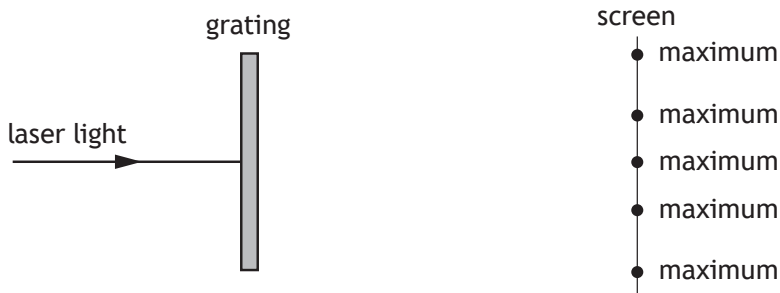


16. Light from a laser is incident on a grating as shown.



A series of interference maxima are observed on the screen.

A student makes the following statements about the interference pattern observed on the screen:

- I Increasing the distance between the grating and the screen increases the distance between the observed maxima.
- II Increasing the distance between the laser and the grating increases the distance between the observed maxima.
- III Decreasing the distance between the slits on the grating decreases the distance between the observed maxima.

Which of the statements is/are correct?

- A I only
- B II only
- C I and III only
- D II and III only
- E I, II and III