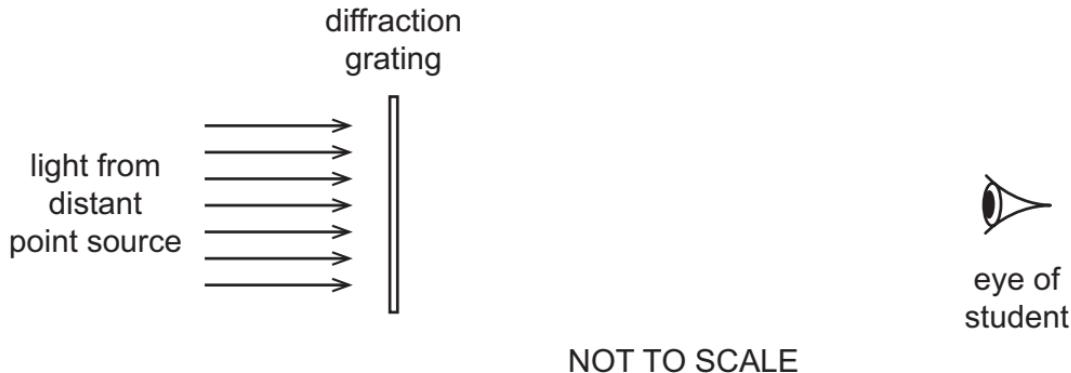


- 30** Light of a single wavelength from a distant point source falls normally onto a diffraction grating positioned with its lines vertical.



The plane of the diffraction grating is at right angles to the incident light. A student looks at the grating from a position near to the grating.

What could the student see?

- A** a central point source with a series of point source images on either side
- B** a central vertical line with a series of spectra on either side
- C** a series of fine vertical lines
- D** a single point source

- 31** Which diagram best represents the light falling onto a vertical surface tilted at an angle to the normal?