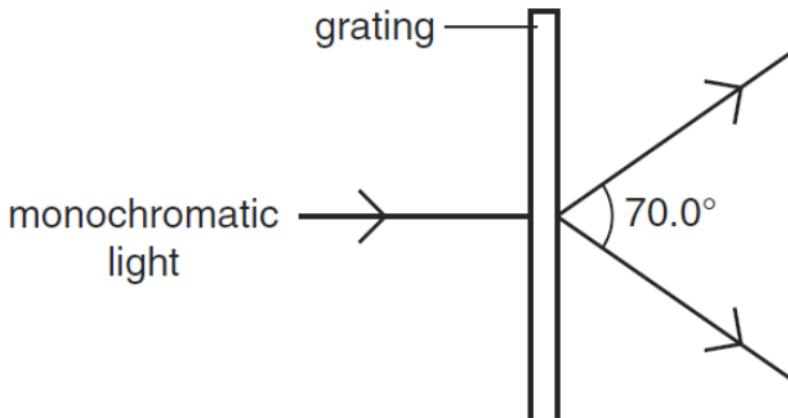


- 16 A diffraction grating is used to measure the wavelength of monochromatic light, as shown in the diagram below.



The diffraction grating has a line density of 1200 per mm. The angle between the first order diffraction maxima is 70.0° .

What is the wavelength of the light?

A 239 nm

B 478 nm

C 630 nm

D 783 nm