

29 Monochromatic light of wavelength  $5.30 \times 10^{-7}$  m is incident normally on a diffraction grating. The first order maximum is observed at an angle of  $15.4^\circ$  to the direction of the incident light.

What is the angle between the first and second order diffraction maxima?

A  $7.6^\circ$

B  $15.4^\circ$

C  $16.7^\circ$

D  $32.0^\circ$

30 Two conducting layers of a liquid crystal display of a calculator are  $8.15 \times 10^{-7}$  m apart. A  $1.5\text{V}$  cell is