

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

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

- A** 7.7° **B** 15.4° **C** 16.7° **D** 32.1°

- 31** A uniform electric field is directed vertically