

- 28** Microwaves of wavelength 3.00 cm are incident normally on a row of parallel metal rods. The separation of the rods is 8.00 cm. The first order diffraction maximum is observed at an angle of  $22.0^\circ$  to the direction of the incident waves.

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

- A**  $22.0^\circ$       **B**  $26.6^\circ$       **C**  $44.0^\circ$       **D**  $48.6^\circ$

- 29** Which electrical quantity would be the result of a calculation in which energy is divided by charge?