

### **Ch 27 HW Quiz #1A**

Visible light (Blue end = 400 nm  $\rightarrow$  red end = 700 nm) is incident normally on a diffraction grating. The blue end of the 2nd order maximum of the diffraction pattern is located at an angle of  $18.0^\circ$  from the normal.

- a) What is the number of lines per centimeter for the grating?
- b) How many complete orders of the visible spectrum can be observed for this grating?