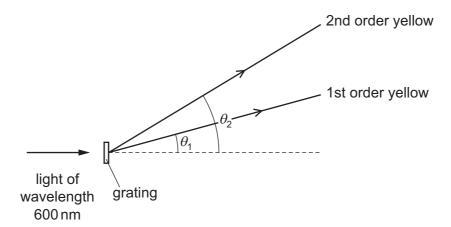
27 A diffraction grating experiment is set up using yellow light of wavelength  $600\,\text{nm}$ . The grating has a slit separation of  $2.00\,\mu\text{m}$ .



What is the angular separation  $(\theta_2 - \theta_1)$  between the first and second order maxima of the yellow light?

- **A** 17.5°
- **B** 19.4°
- **C** 36.9°
- **D** 54.3°

Space for working