TL 3-31 Dentist x-rays

$\Delta V = 80\ kV$ This is the accelerating voltage for electrons

This implies that the x-rays produced have a maximum energy of $(80e3)(1.6e-19) = 1.28e-14\ J$

$\Delta V \quad q \quad = E$

The xray wavelength of photons having this energy is

$$\lambda = \frac{ch}{E} = \frac{(3e8)(}{}$$

$$= 1.55 \times 10^{-11}\ m$$

$$= 0.155 \text{Å}$$

$$= 0.0155 nm$$