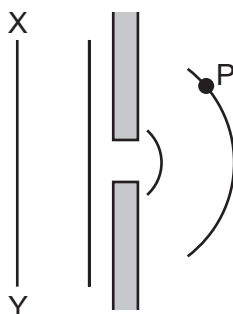**29** A monochromatic plane wave of speed c and wavelength λ is diffracted at a small aperture.

The diagram illustrates successive wavefronts.

After what time will some portion of the wavefront XY reach point P?

A $\dfrac{3\lambda}{2c}$ **B** $\dfrac{2\lambda}{c}$ **C** $\dfrac{3\lambda}{c}$ **D** $\dfrac{4\lambda}{c}$

Space for working