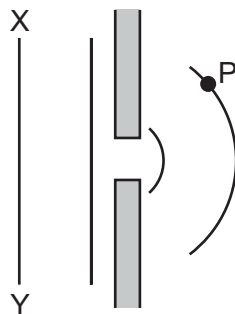


**29** A monochromatic plane wave of speed  $c$  and wavelength  $\lambda$  is diffracted at a small aperture.

The diagram illustrates successive wavefronts.



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

**A**  $\frac{3\lambda}{2c}$

**B**  $\frac{2\lambda}{c}$

**C**  $\frac{3\lambda}{c}$

**D**  $\frac{4\lambda}{c}$

**Space for working**