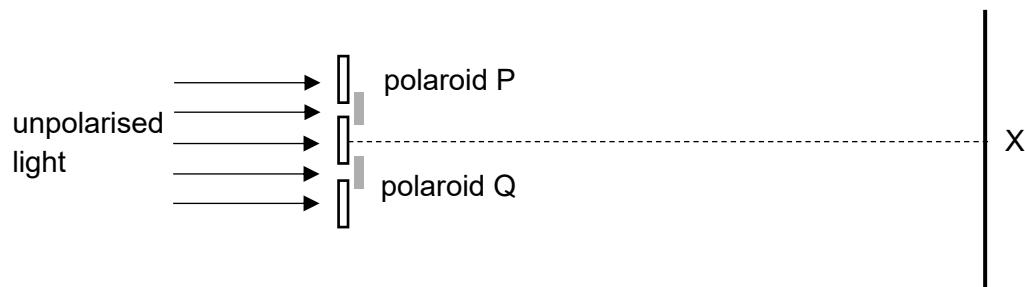


- 17** Two sheets of polaroid P and Q are placed in front of a double slit such that their directions of polarization are parallel to each other.

When unpolarised light is incident normally on the double slit, the central bright fringe at X has an amplitude  $2A$ .



What is the amplitude at X when polaroid P is turned through an angle of  $60^\circ$ ?

**A**  $0.5A$

**B**  $1.5A$

**C**  $1.7A$

**D**  $2A$